

**PART 70 OPERATING PERMIT
OFFICE OF AIR MANAGEMENT
and Indianapolis Environmental Resource
Management Division**

**Saint Vincent Hospital and Health Services
2001 W. 86th Street
Indianapolis, Indiana 46240**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the source described in Section A (Source Summary) of this permit.

This permit is issued in accordance with 326 IAC 2 and 40 CFR Part 70 Appendix A and contains the conditions and provisions specified in 326 IAC 2-7 as required by 42 U.S.C. 7401, et. seq. (Clean Air Act as amended by the 1990 Clean Air Act Amendments), 40 CFR Part 70.6, IC 13-15, IC 13-17 and the Code of Indianapolis and Marion County, Chapter 511.

Operation Permit No.: T097-7469-00129	
Issued by: Janet G. McCabe, Assistant Commissioner Office of Air Management Mona A. Salem, Chief Operations Officer Department of Public Works, City of Indianapolis	Issuance Date:

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) and The Indianapolis Environmental Resource Management Division (ERMD). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-7-4(c)] [326 IAC 2-7-5(15)]

The Permittee owns and operates stationary source General Medical and Surgical Hospital.

Responsible Official: Clifford A. Jaebker
Source Address: 2001 W. 86th Street, P.O. Box 40970, Indianapolis, Indiana 46240
Mailing Address: 2001 W. 86th Street, P.O. Box 40970, Indianapolis, Indiana 46240
Phone Number: 317-338-8122
SIC Code: 8062
County Location: Marion
County Status: Nonattainment for Particulate Material
Attainment for all other criteria pollutants

Source Status: Part 70 Permit Program
Minor Source, under PSD; and
Major Source, Section 112 of the Clean Air Act

A.2 Emission Units and Pollution Control Equipment Summary [326 IAC 2-7-4(c)(3)] [326 IAC 2-7-5(15)]

This stationary source consists of the following emission units and pollution control devices:

- (a) One (1) 29.2 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1971, identified as EU-01, exhausting to stack/vent ID 01 with a production capacity of 24,000 pounds per hour of steam.
- (b) One (1) 29.2 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1971, identified as EU-02, exhausting to stack/vent ID 02 with a production capacity of 24,000 pounds per hour of steam.
- (c) One (1) 35.5 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1987, identified as EU-03, exhausting to stack/vent ID 03 with a production capacity of 30,000 pounds per hour of steam.
- (d) One (1) 11.25 mmBtu Superior Waste Gas and Number 2 fuel oil fired boiler, constructed in April 1989, identified as EU-04, exhausting to stack/vent ID 04 and 05 with a production capacity of 7,488 pounds per hour of steam.
- (e) One (1) 35.5 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1987, identified as EU-05, exhausting to stack/vent ID 06 with a production capacity of 30,000 pounds per hour of steam.
- (f) One (1) 11.33 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1992, identified as Emergency Generator #5, exhausting to stack/vent ID 13.
- (g) One (1) 11.33 mmBtu Caterpillar Number 2 fuel oil fired emergency generator,

constructed in 1992, identified as Emergency Generator #6, exhausting to stack/vent ID 14.

- (g) One (1) Joy Technologies medical and general waste incinerator, constructed in 1989, identified as EU-07 exhausting to stack/vent 07, with input capacity of 1500 pounds per hour, with no control. Burns medical infectious waste, general waste, cardboard waste, and food services waste. Has two chambers; chamber one operated at 1420-1650 degrees and chamber two operates at 1950 degrees.

A.3 Specifically Regulated Insignificant Activities [326 IAC 2-7-1(21)] [326 IAC 2-7-4(c)]
[326 IAC 2-7-5(15)]

This stationary source also includes the following insignificant activities which are specifically regulated, as defined in 326 IAC 2-7-1(21):

- (a) One (1) 1.71 mmBtu Superior natural gas and Number 2 fuel oil fired boiler, constructed in 1989, identified as EU-05, exhausting to stack/vent ID 06.
- (b) One (1) 5.3 mmBtu H.B. Smith natural gas and Number 2 fuel oil fired boiler constructed in 1985, identified as EU-08, exhausting to stack/vent ID 08.
- (c) One (1) 6.95 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1971, identified as Emergency Generator #1, exhausting to stack/vent ID 09.
- (d) One (1) 6.95 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1971, identified as Emergency Generator #2, exhausting to stack/vent ID 10.
- (e) One (1) 6.95 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1981, identified as Emergency Generator #3, exhausting to stack/vent ID 11.
- (f) One (1) 7.08 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1985, identified as Emergency Generator #4, exhausting to stack/vent ID 12.
- (g) One (1) 2.96 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1985, identified as Emergency Generator #7, exhausting to stack/vent ID 15.

A.4 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B

GENERAL CONDITIONS

B.1 Permit No Defense [IC 13]

- (a) Indiana statutes from IC 13 and rules from 326 IAC, quoted in conditions in this permit, are those applicable at the time the permit was issued. The issuance or possession of this permit shall not alone constitute a defense against an alleged violation of any law, regulation or standard, except for the requirement to obtain a Part 70 permit under 326 IAC 2-7.
- (b) This prohibition shall not apply to alleged violations of applicable requirements for which the Commissioner has granted a permit shield in accordance with 326 IAC 2-7-15, as set out in this permit in the Section B condition entitled "Permit Shield."

B.2 Definitions [326 IAC 2-7-1]

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, Code of Indianapolis and Marion County Chapter 511, 326 IAC 1-2, IAPCB Reg. 1-2-2 and 326 IAC 2-7 shall prevail.

B.3 Permit Term [326 IAC 2-7-5(2)]

This permit is issued for a fixed term of five (5) years from the effective date, as determined in accordance with IC 4-21.5-3-5(f), IC 13-15-5-3, and Code of Indianapolis and Marion County Chapter 511..

B.4 Enforceability [326 IAC 2-7-7(a)]

- (a) All terms and conditions in this permit, including any provisions designed to limit the source's potential to emit, are enforceable by IDEM and the ERMD.
- (b) The IAPCB has adopted by reference state rules listed in Attachment A of this permit. The version adopted by reference includes all amendments, additions and repeals filed with the Secretary of State through August 10, 1997 and published in the Indiana Register September 1, 1997, unless otherwise indicated in the adoption by reference. For the purposes of this permit, all state rules adopted by reference by the IAPCB are enforceable by ERMD using local enforcement procedures.
- (b) Unless otherwise stated, terms and conditions of this permit, including any provisions to limit the source's potential to emit, are enforceable by the United States Environmental Protection Agency (U.S. EPA) and citizens under the Clean Air Act.
- (c) All terms and conditions in this permit that are local requirements, including any provisions designed to limit the source's potential to emit, are enforceable by ERMD.

B.5 Termination of Right to Operate [326 IAC 2-7-10] [326 IAC 2-7-4(a)]

The Permittee's right to operate this source terminates with the expiration of this permit unless a timely and complete renewal application is submitted at least nine (9) months prior to the date of expiration of the source's existing permit, consistent with 326 IAC 2-7-3 and 326 IAC 2-7-4(a).

B.6 Severability [326 IAC 2-7-5(5)]

The provisions of this permit are severable; a determination that any portion of this permit is invalid shall not affect the validity of the remainder of the permit.

B.7 Property Rights or Exclusive Privilege [326 IAC 2-7-5(6)(D)]

This permit does not convey any property rights of any sort, or any exclusive privilege.

B.8 Duty to Supplement and Provide Information [326 IAC 2-7-4(b)] [326 IAC 2-7-5(6)(E)]

- (a) The Permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

- (b) The Permittee shall furnish to IDEM, OAM, and the ERMD within a reasonable time, any information that IDEM, OAM, and the ERMD may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- (c) Upon request, the Permittee shall also furnish to IDEM, OAM, and the ERMD copies of records required to be kept by this permit. If the Permittee wishes to assert a claim of confidentiality over any of the furnished records, the Permittee must furnish such records to IDEM, OAM, and the ERMD along with a claim of confidentiality under 326 IAC 17 and IAPCB Reg. 17.. If requested by IDEM, OAM, or the U.S. EPA, to furnish copies of requested records directly to U. S. EPA, and if the Permittee is making a claim of confidentiality regarding the furnished records, then the Permittee must furnish such confidential records directly to the U.S. EPA along with a claim of confidentiality under 40 CFR 2, Subpart B.

B.9 Compliance with Permit Conditions [326 IAC 2-7-5(6)(A)] [326 IAC 2-7-5(6)(B)]

- (a) The Permittee must comply with all conditions of this permit. Noncompliance with any provisions of this permit, except those specifically designated as not federally enforceable, constitutes a violation of the Clean Air Act and is grounds for:
- (1) Enforcement action;
 - (2) Permit termination, revocation and reissuance, or modification; or
 - (3) Denial of a permit renewal application.
- (b) It shall not be a defense for the Permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

B.10 Certification [326 IAC 2-7-4(f)] [326 IAC 2-7-6(1)][326 IAC 2-7-5(3)(C)]

- (a) Where specifically designated by this permit or required by an applicable requirement, any application form, report, or compliance certification submitted under this permit shall contain certification by a responsible official of truth, accuracy, and completeness. This certification shall state that, based on information and belief formed after reasonable

inquiry, the statements and information in the document are true, accurate, and complete.

- (b) One (1) certification shall be included, on the attached Certification Form, with each submittal.
- (c) A responsible official is defined at 326 IAC 2-7-1(34).

B.11 Annual Compliance Certification [326 IAC 2-7-6(5)]

- (a) The Permittee shall annually submit a compliance certification report which addresses the status of the source's compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. The certification shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in letter form no later than April 15 of each year to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Air Enforcement Branch - Indiana (AE-17J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

- (b) The annual compliance certification report required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, and the ERMD on or before the date it is due.
- (c) The annual compliance certification report shall include the following:
 - (1) The identification of each term or condition of this permit that is the basis of the certification;
 - (2) The compliance status;
 - (3) Whether compliance was based on continuous or intermittent data;
 - (4) The methods used for determining compliance of the source, currently and over the reporting period consistent with 326 IAC 2-7-5(3);
 - (5) Any insignificant activity that has been added without a permit revision; and
 - (6) Such other facts, as specified in Sections D of this permit, as IDEM, OAM, and

the ERMD may require to determine the compliance status of the source.

The submittal by the Permittee does require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

B.12 Preventive Maintenance Plan [326 IAC 2-7-5(1),(3) and (13)] [326 IAC 2-7-6(1) and (6)]
[326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) within ninety (90) days after issuance of this permit, including the following information on each facility:

- (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
- (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
- (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.

If due to circumstances beyond its control, the PMP cannot be prepared and maintained within the above time frame, the Permittee may extend the date an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, and the ERMD upon request and shall be subject to review and approval by IDEM, OAM, and the ERMD. IDEM, OAM, and the ERMD may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

B.13 Emergency Provisions [326 IAC 2-7-16]

- (a) An emergency, as defined in 326 IAC 2-7-1(12), is not an affirmative defense for an action brought for noncompliance with a federal or state health-based emission limitation, except as provided in 326 IAC 2-7-16.
- (b) An emergency, as defined in 326 IAC 2-7-1(12), constitutes an affirmative defense to an action brought for noncompliance with a health-based or technology-based emission limitation if the affirmative defense of an emergency is demonstrated through properly signed, contemporaneous operating logs or other relevant evidence that describe the following:

- (1) An emergency occurred and the Permittee can, to the extent possible, identify the causes of the emergency;
- (2) The permitted facility was at the time being properly operated;
- (3) During the period of an emergency, the Permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in this permit;
- (4) For each emergency lasting one (1) hour or more, the Permittee notified IDEM, OAM, and the ERMD within four (4) daytime business hours after the beginning of the emergency, or after the emergency was discovered or reasonably should have been discovered;

Telephone Number: 1-800-451-6027 (ask for Office of Air Management, Compliance Section), or
Telephone Number: 317-233-5674 (ask for Compliance Section)
Facsimile Number: 317-233-5967 or

ERMD

Telephone No.: 317-327-2234 (ask for Data Compliance)
Facsimile No.: 317-327-2274

- (5) For each emergency lasting one (1) hour or more, the Permittee submitted notice, either in writing or facsimile, of the emergency to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

within two (2) working days of the time when emission limitations were exceeded due to the emergency.

The notice fulfills the requirement of 326 IAC 2-7-5(3)(C)(ii) and must contain the following:

- (A) A description of the emergency;
- (B) Any steps taken to mitigate the emissions; and
- (C) Corrective actions taken.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (6) The Permittee immediately took all reasonable steps to correct the emergency.

- (c) In any enforcement proceeding, the Permittee seeking to establish the occurrence of an emergency has the burden of proof.
- (d) This emergency provision supersedes 326 IAC 1-6 (Malfunctions) for sources subject to this rule after the effective date of this rule. This permit condition is in addition to any emergency or upset provision contained in any applicable requirement.
- (e) IDEM, OAM, and the ERMD may require that the Preventive Maintenance Plans required under 326 IAC 2-7-4-(c)(10) be revised in response to an emergency.
- (f) Failure to notify IDEM, OAM, and the ERMD by telephone or facsimile of an emergency lasting more than one (1) hour in compliance with (b)(4) and (5) of this condition shall constitute a violation of 326 IAC 2-7 and any other applicable rules.
- (g) Operations may continue during an emergency only if the following conditions are met:
 - (1) If the emergency situation causes a deviation from a technology-based limit, the Permittee may continue to operate the affected emitting facilities during the emergency provided the Permittee immediately takes all reasonable steps to correct the emergency and minimize emissions.
 - (2) If an emergency situation causes a deviation from a health-based limit, the Permittee may not continue to operate the affected emissions facilities unless:
 - (A) The Permittee immediately takes all reasonable steps to correct the emergency situation and to minimize emissions; and
 - (B) Continued operation of the facilities is necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value.

Any operation shall continue no longer than the minimum time required to prevent the situations identified in (g)(2)(B) of this condition.

B.14 Permit Shield [326 IAC 2-7-15]

- (a) This condition provides a permit shield as addressed in 326 IAC 2-7-15.
- (b) This permit shall be used as the primary document for determining compliance with applicable requirements established by previously issued permits. Compliance with the conditions of this permit shall be deemed in compliance with any applicable requirements as of the date of permit issuance, provided that:
 - (1) The applicable requirements are included and specifically identified in this permit; or
 - (2) The permit contains an explicit determination or concise summary of a determination that other specifically identified requirements are not applicable.
- (c) If, after issuance of this permit, it is determined that the permit is in nonconformance with an applicable requirement that applied to the source on the date of permit issuance, including any term or condition from a previously issued construction or operation permit, IDEM, OAM, and the ERMD shall immediately take steps to reopen and revise this permit and issue a compliance order to the Permittee to ensure expeditious compliance with the applicable requirement until the permit is reissued. The permit

shield shall continue in effect so long as the Permittee is in compliance with the compliance order.

- (d) No permit shield shall apply to any permit term or condition that is determined after issuance of this permit to have been based on erroneous information supplied in the permit application. Erroneous information means information that the Permittee knew to be false, or in the exercise of reasonable care should have been known to be false, at the time the information was submitted.
- (e) Nothing in 326 IAC 2-7-15 or in this permit shall alter or affect the following:
 - (1) The provisions of Section 303 of the Clean Air Act (emergency orders), including the authority of the U.S. EPA under Section 303 of the Clean Air Act;
 - (2) The liability of the Permittee for any violation of applicable requirements prior to or at the time of this permit's issuance;
 - (3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act; and
 - (4) The ability of U.S. EPA to obtain information from the Permittee under Section 114 of the Clean Air Act.
- (f) This permit shield is not applicable to any change made under 326 IAC 2-7-20(b)(2) (Sections 502(b)(10) of the Clean Air Act changes) and 326 IAC 2-7-20(c)(2) (trading based on State Implementation Plan (SIP) provisions).
- (g) This permit shield is not applicable to modifications eligible for group processing until after IDEM, OAM, and the ERMD has issued the modifications. [326 IAC 2-7-12(c)(7)]
- (h) This permit shield is not applicable to minor Part 70 permit modifications until after IDEM, OAM, and the ERMD has issued the modification. [326 IAC 2-7-12(b)(7)]

B.15 Multiple Exceedances [326 IAC 2-7-5(1)(E)]

Any exceedance of a permit limitation or condition contained in this permit, which occurs contemporaneously with an exceedance of an associated surrogate or operating parameter established to detect or assure compliance with that limit or condition, both arising out of the same act or occurrence, shall constitute a single potential violation of this permit.

B.16 Deviations from Permit Requirements and Conditions [326 IAC 2-7-5(3)(C)(ii)]

- (a) Deviations from any permit requirements (for emergencies see Section B - Emergency Provisions), the probable cause of such deviations, and any response steps or preventive measures taken shall be reported to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

within ten (10) calendar days from the date of the discovery of the deviation.

- (b) A deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
- (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) An emergency as defined in 326 IAC 2-7-1(12); or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless such failure has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred is a deviation.

- (c) Written notification shall be submitted on the attached Emergency/Deviation Occurrence Reporting Form or its substantial equivalent. The notification does not need to be certified by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (d) Proper notice submittal under 326 IAC 2-7-16 satisfies the requirement of this subsection.

B.17 Permit Modification, Reopening, Revocation and Reissuance, or Termination
[326 IAC 2-7-5(6)(C)] [326 IAC 2-7-8(a)] [326 IAC 2-7-9]

- (a) This permit may be modified, reopened, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a Part 70 permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any condition of this permit. [326 IAC 2-7-5(6)(C)]
- (b) This permit shall be reopened and revised under any of the circumstances listed in IC 13-15-7-2 or if IDEM, OAM, and the ERMD determines any of the following:
- (1) That this permit contains a material mistake.
 - (2) That inaccurate statements were made in establishing the emissions standards or other terms or conditions.
 - (3) That this permit must be revised or revoked to assure compliance with an applicable requirement. [326 IAC 2-7-9(a)(3)]
- (c) Proceedings by IDEM, OAM, and the ERMD to reopen and revise this permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. Such reopening and revision shall be made as expeditiously as practicable. [326 IAC 2-7-9(b)]
- (d) The reopening and revision of this permit, under 326 IAC 2-7-9(a), shall not be initiated before notice of such intent is provided to the Permittee by IDEM, OAM, and the ERMD at least thirty (30) days in advance of the date this permit is to be reopened, except that IDEM, OAM, and the ERMD may provide a shorter time period in the case of an emergency. [326 IAC 2-7-9(c)]

B.18 Permit Renewal [326 IAC 2-7-4]

- (a) The application for renewal shall be submitted using the application form or forms prescribed by IDEM, OAM, and the ERMD and shall include the information specified in 326 IAC 2-7-4. Such information shall be included in the application for each emission unit at this source, except those emission units included on the trivial or insignificant activities list contained in 326 IAC 2-7-1(21) and 326 IAC 2-7-1(40).

Request for renewal shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

- (b) Timely Submittal of Permit Renewal [326 IAC 2-7-4(a)(1)(D)]

- (1) A timely renewal application is one that is:

- (A) Submitted at least nine (9) months prior to the date of the expiration of this permit; and
- (B) If the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, and the ERMD on or before the date it is due.

- (2) If IDEM, OAM, and the ERMD, upon receiving a timely and complete permit application, fails to issue or deny the permit renewal prior to the expiration date of this permit, this existing permit shall not expire and all terms and conditions shall continue in effect, including any permit shield provided in 326 IAC 2-7-15, until the renewal permit has been issued or denied.

- (c) Right to Operate After Application for Renewal [326 IAC 2-7-3]
If the Permittee submits a timely and complete application for renewal of this permit, the source's failure to have a permit is not a violation of 326 IAC 2-7 until IDEM, OAM, and the ERMD, takes final action on the renewal application, except that this protection shall cease to apply if, subsequent to the completeness determination, the Permittee fails to submit by the deadline specified in writing by IDEM, OAM, and the ERMD, any additional information identified as being needed to process the application.
- (d) United States Environmental Protection Agency Authority [326 IAC 2-7-8(e)]
If IDEM, OAM, and the ERMD fails to act in a timely way on a Part 70 permit renewal, the U.S. EPA may invoke its authority under Section 505(e) of the Clean Air Act to terminate or revoke and reissue a Part 70 permit.

B.19 Permit Amendment or Modification [326 IAC 2-7-11] [326 IAC 2-7-12]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 or 326 IAC 2-7-12

whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

Any such application should be certified by the "responsible official" as defined by 326 IAC 2-7-1(34) only if a certification is required by the terms of the applicable rule.

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.20 Permit Revision Under Economic Incentives and Other Programs [326 IAC 2-7-5(8)]
[326 IAC 2-7-12 (b)(2)]

- (a) No Part 70 permit revision shall be required under any approved economic incentives, marketable Part 70 permits, emissions trading, and other similar programs or processes for changes that are provided for in a Part 70 permit.
- (b) Notwithstanding 326 IAC 2-7-12(b)(1)(D)(i) and 326 IAC 2-7-12(c)(1), minor Part 70 permit modification procedures may be used for Part 70 modifications involving the use of economic incentives, marketable Part 70 permits, emissions trading, and other similar approaches to the extent that such minor Part 70 permit modification procedures are explicitly provided for in the applicable State Implementation Plan (SIP) or in applicable requirements promulgated or approved by the U.S. EPA.

B.21 Operational Flexibility [326 IAC 2-7-20]

- (a) The Permittee may make any change or changes at the source that are described in 326 IAC 2-7-20(b), (c), or (e), without a prior permit revision, if each of the following conditions is met:
- (1) The changes are not modifications under any provision of Title I of the Clean Air Act;
 - (2) Any approval required by 326 IAC 2-1.1 has been obtained;
 - (3) The changes do not result in emissions which exceed the emissions allowable under this permit (whether expressed herein as a rate of emissions or in terms of total emissions);
 - (4) The Permittee notifies the:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management

100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

and

United States Environmental Protection Agency, Region V
Air and Radiation Division, Regulation Development Branch - Indiana (AR-18J)
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

in advance of the change by written notification at least ten (10) days in advance of the proposed change. The Permittee shall attach every such notice to the Permittee's copy of this permit; and

- (5) The Permittee maintains records on-site which document, on a rolling five (5) year basis, all such changes and emissions trading that are subject to 326 IAC 2-7-20(b), (c), or (e) and makes such records available, upon reasonable request, for public review.

Such records shall consist of all information required to be submitted to IDEM, OAM, and the ERMD in the notices specified in 326 IAC 2-7-20(b), (c)(1), and (e)(2).

- (b) The Permittee may make Section 502(b)(10) of the Clean Air Act changes (this term is defined at 326 IAC 2-7-1(36)) without a permit revision, subject to the constraint of 326 IAC 2-7-20(a) and the following additional conditions:
 - (1) The permit shield, described in 326 IAC 2-7-15, shall not apply to any change made under 326 IAC 2-7-20(b).
 - (2) For each such Section 502(b)(10) of the Clean Air Act change, the required written notification shall include the following:
 - (i) A brief description of the change within the source;
 - (ii) The date on which the change will occur;
 - (iii) Any change in emissions; and
 - (iv) Any permit term or condition that is no longer applicable as a result of the change.

The notification which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) Emission Trades [326 IAC 2-7-20(c)]
The Permittee may trade increases and decreases in emissions in the source, where the applicable SIP provides for such emission trades without requiring a permit revision,

subject to the constraints of Section (a) of this condition and those in 326 IAC 2-7-20(c).

- (d) Alternative Operating Scenarios [326 IAC 2-7-20(d)]
The Permittee may make changes at the source within the range of alternative operating scenarios that are described in the terms and conditions of this permit in accordance with 326 IAC 2-7-5(9). No prior notification of IDEM, OAM, or U.S. EPA is required.
- (e) Backup fuel switches specifically addressed in, and limited under, Section D of this permit shall not be considered alternative operating scenarios. Therefore, the notification requirements of part (a) of this condition do not apply.

B.22 Construction Permit Requirement [326 IAC 2]

A modification, construction, or reconstruction shall be approved if required by and in accordance with the applicable provisions of 326 IAC 2 and IAPCB Reg. 2-1-1..

B.23 Inspection and Entry [326 IAC 2-7-6(2)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAM, and the ERMD U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a Part 70 source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
- (c) Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.
[326 IAC 2-7-6(6)]
 - (1) The Permittee may assert a claim that, in the opinion of the Permittee, information removed or about to be removed from the source by IDEM, OAM, and ERMD or an authorized representative, contains information that is confidential under IC 5-14-3-4(a). The claim shall be made in writing before or at the time the information is removed from the source. In the event that a claim of confidentiality is so asserted, neither IDEM, OAM, and ERMD nor an authorized representative, may disclose the information unless and until IDEM, OAM, and ERMD makes a determination under 326 IAC 17-1-7 through 326 IAC 17-1-9 and IAPCB Reg. 17 that the information is not entitled to confidential treatment and that determination becomes final. [IC 5-14-3-4; IC 13-14-11-3; 326 IAC 17-1-7 through 326 IAC 17-1-9][IAPCB Reg. 17]
 - (2) The Permittee, IDEM, OAM, and ERMD acknowledge that the federal law applies to claims of confidentiality made by the Permittee with regard to information removed or about to be removed from the source by U.S. EPA. [40 CFR Part 2,

Subpart B]

B.24 Transfer of Ownership or Operational Control [326 IAC 2-7-11]

- (a) The Permittee must comply with the requirements of 326 IAC 2-7-11 whenever the Permittee seeks to change the ownership or operational control of the source and no other change in the permit is necessary.
- (b) Any application requesting a change in the ownership or operational control of the source shall contain a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new Permittee. The application shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Permits
2700 South Belmont Avenue
Indianapolis, Indiana 46221

The application which shall be submitted by the Permittee does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (c) The Permittee may implement administrative amendment changes addressed in the request for an administrative amendment immediately upon submittal of the request. [326 IAC 2-7-11(c)(3)]

B.25 Annual Fee Payment [326 IAC 2-7-19] [326 IAC 2-7-5(7)]

- (a) The Permittee shall pay annual fees to IDEM, OAM, and the ERMD, within thirty (30) calendar days of receipt of a billing. If the Permittee does not receive a bill from IDEM, OAM, or the ERMD the applicable fee is due April 1 of each year.
- (b) Except as provided in 326 IAC 2-7-19(e), failure to pay may result in administrative enforcement action or revocation of this permit.
- (c) The Permittee may call the following telephone numbers: 1-800-451-6027 or 317-233-0425 (ask for OAM, Technical Support and Modeling Section), to determine the appropriate permit fee.

SECTION C

SOURCE OPERATION CONDITIONS

Entire Source

Emission Limitations and Standards [326 IAC 2-7-5(1)]

- C.1 Particulate Matter Emission Limitations For Processes with Process Weight Rates Less Than One Hundred (100) pounds per hour [326 IAC 6-3-2(c)]
Pursuant to 326 IAC 6-3-2(c), the allowable particulate matter emissions rate from any process not already regulated by 326 IAC 6-1 or any New Source Performance Standard, and which has a maximum process weight rate less than 100 pounds per hour shall not exceed 0.551 pounds per hour.
- C.2 Opacity [326 IAC 5-1]
Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), visible emissions shall meet the following, unless otherwise stated in this permit:
- (a) Opacity shall not exceed an average of thirty percent (30%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
 - (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor in a six (6) hour period.
- C.3 Open Burning [326 IAC 4-1] [IC 13-17-9][Code of Indianapolis and Marion County Code Chapter 511]
The Permittee shall not open burn any material except as provided in 326 IAC 4-1-3, 326 IAC 4-1-4 or 326 IAC 4-1-6. The previous sentence notwithstanding, the Permittee may open burn in accordance with an open burning approval issued by the Commissioner under 326 IAC 4-1-4.1. 326 IAC 4-1-3 (a)(2)(A) and (B) are not federally enforceable.
- C.4 Incineration [326 IAC 4-2][326 IAC 9-1-2]
The Permittee shall not operate an incinerator or incinerate any waste or refuse except as provided in 326 IAC 4-2 and 326 IAC 9-1-2. The provisions of 326 IAC 9-1-2 are not federally enforceable.
- The Permittee shall not open burn any material except as provided in Chapter 4, Code of Indianapolis and Marion County and IAPCB Reg 4-1. Provisions of the code that are more stringent than 326 IAC 4-1 are locally enforceable only by ERMD.
- C.5 Fugitive Dust Emissions [326 IAC 6-4][IAPCB Reg. 11-4]
The Permittee shall not allow fugitive dust to escape beyond the property line or boundaries of the property, right-of-way, or easement on which the source is located, in a manner that would violate 326 IAC 6-4 (Fugitive Dust Emissions). 326 IAC 6-4-2(4) IAPCB Reg. II-4. 326 IAC 6-4-2(4) and IAPCB Reg. II-4 is not federally enforceable.
- C.6 Operation of Equipment [326 IAC 2-7-6(6)]
Except as otherwise provided in this permit, all air pollution control equipment listed in this permit and used to comply with an applicable requirement shall be operated at all times that the emission unit vented to the control equipment is in operation.

C.7 Stack Height [326 IAC 1-7]

The Permittee shall comply with the applicable provisions of 326 IAC 1-7 (Stack Height Provisions), for all exhaust stacks through which a potential (before controls) of twenty-five (25) tons per year or more of particulate matter or sulfur dioxide is emitted.

C.8 Asbestos Abatement Projects [326 IAC 14-10] [326 IAC 18] [40 CFR 61.140]

- (a) Notification requirements apply to each owner or operator. If the combined amount of regulated asbestos containing material (RACM) to be stripped, removed or disturbed is at least 260 linear feet on pipes or 160 square feet on other facility components, or at least thirty-five (35) cubic feet on all facility components, then the notification requirements of 326 IAC 14-10-3 are mandatory. All demolition projects require notification whether or not asbestos is present.
- (b) The Permittee shall ensure that a written notification is sent on a form provided by the Commissioner at least ten (10) working days before asbestos stripping or removal work or before demolition begins, per 326 IAC 14-10-3, and shall update such notice as necessary, including, but not limited to the following:
 - (1) When the amount of affected asbestos containing material increases or decreases by at least twenty percent (20%); or
 - (2) If there is a change in the following:
 - (A) Asbestos removal or demolition start date;
 - (B) Removal or demolition contractor; or
 - (C) Waste disposal site.
- (c) The Permittee shall ensure that the notice is postmarked or delivered according to the guidelines set forth in 326 IAC 14-10-3(2).
- (d) The notice to be submitted shall include the information enumerated in 326 IAC 14-10-3(3).

All required notifications shall be submitted to:

Indiana Department of Environmental Management
Asbestos Section, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Enforcement Section, Asbestos Program
2700 South Belmont Avenue
Indianapolis, Indiana 46221

The notifications do not require a certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

- (e) Procedures for Asbestos Emission Control
The Permittee shall comply with the applicable emission control procedures in 326 IAC 14-10-4 and 40 CFR 61.145(c). Per 326 IAC 14-10-4, emission control requirements

are applicable for any removal or disturbance of RACM greater than three (3) linear feet on pipes or three (3) square feet on any other facility components or a total of at least 0.75 cubic feet on all facility components.

- (f) Indiana Accredited Asbestos Inspector
The Permittee shall comply with 326 IAC 14-10-1(a) that requires the owner or operator, prior to a renovation/demolition, to use an Indiana Accredited Asbestos Inspector to thoroughly inspect the affected portion of the facility for the presence of asbestos. The requirement that the inspector be accredited is federally enforceable.

Testing Requirements [326 IAC 2-7-6(1)]

C.9 Performance Testing [326 IAC 3-6]

- (a) All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM and the ERMD within forty-five (45) days after the completion of the testing. An extension may be granted by IDEM, OAM, and the ERMD, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Compliance Monitoring Requirements [326 IAC 2-7-5(1)] [326 IAC 2-7-6(1)]

C.10 Compliance Schedule [326 IAC 2-7-6(3)]

The Permittee:

- (a) Has certified that all facilities at this source are in compliance with all applicable requirements; and
- (b) Has submitted a statement that the Permittee will continue to comply with such requirements; and

- (c) Will comply with such applicable requirements that become effective during the term of this permit.

C.11 Compliance Monitoring [326 IAC 2-7-5(3)] [326 IAC 2-7-6(1)]

Compliance with applicable requirements shall be documented as required by this permit. All monitoring and record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment. If due to circumstances beyond its control, that equipment cannot be installed and operated within ninety (90) days, the Permittee may extend the compliance schedule related to the equipment for an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date.

The notification which shall be submitted by the Permittee does require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

C.12 Maintenance of Monitoring Equipment [326 IAC 2-7-5(3)(A)(iii)]

- (a) In the event that a breakdown of the monitoring equipment occurs, a record shall be made of the times and reasons of the breakdown and efforts made to correct the problem. To the extent practicable, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less frequent than required in Section D of this permit until such time as the monitoring equipment is back in operation. In the case of continuous monitoring, supplemental or intermittent monitoring of the parameter should be implemented at intervals no less than one (1) hour until such time as the continuous monitor is back in operation.
- (b) The Permittee shall install, calibrate, quality assure, maintain, and operate all necessary monitors and related equipment. In addition, prompt corrective action shall be initiated whenever indicated.

C.13 Monitoring Methods [326 IAC 3]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

Corrective Actions and Response Steps [326 IAC 2-7-5] [326 IAC 2-7-6]

C.14 Emergency Reduction Plans [326 IAC 1-5-2] [326 IAC 1-5-3]

Pursuant to 326 IAC 1-5-2 (Emergency Reduction Plans; Submission):

- (a) The Permittee shall prepare written emergency reduction plans (ERPs) consistent with

safe operating procedures.

- (b) These ERPs shall be submitted for approval to:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

within ninety (90) days after the date of issuance of this permit.

The ERP does not require the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

- (c) If the ERP is disapproved by IDEM, OAM, and the ERMD, the Permittee shall have an additional thirty (30) days to resolve the differences and submit an approvable ERP.
- (d) These ERPs shall state those actions that will be taken, when each episode level is declared, to reduce or eliminate emissions of the appropriate air pollutants.
- (e) Said ERPs shall also identify the sources of air pollutants, the approximate amount of reduction of the pollutants, and a brief description of the manner in which the reduction will be achieved.
- (f) Upon direct notification by IDEM, OAM, and the ERMD, that a specific air pollution episode level is in effect, the Permittee shall immediately put into effect the actions stipulated in the approved ERP for the appropriate episode level. [326 IAC 1-5-3]

C.15 Risk Management Plan [326 IAC 2-7-5(12)] [40 CFR 68.215]

If a regulated substance, subject to 40 CFR 68, is present at a source in more than a threshold quantity, 40 CFR 68 is an applicable requirement and the Permittee shall:

- (a) Submit:
- (1) A compliance schedule for meeting the requirements of 40 CFR 68 by the date provided in 40 CFR 68.10(a); or
 - (2) As a part of the compliance certification submitted under 326 IAC 2-7-6(5), a certification statement that the source is in compliance with all the requirements of 40 CFR 68, including the registration and submission of a Risk Management Plan (RMP); and
 - (3) A verification to IDEM, OAM, and the ERMD that a RMP or a revised plan was prepared and submitted as required by 40 CFR 68.
- (b) Provide annual certification to IDEM, OAM, and the ERMD that the Risk Management Plan is being properly implemented.

All documents submitted pursuant to this condition shall include the certification by the “responsible official” as defined by 326 IAC 2-7-1(34).

C.16 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 2-7-5][326 IAC 2-7-6]
[326 IAC 1-6]

-
- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
- (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting Requirements) and in Section D of this permit; and
 - (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM, and the ERMD upon request and shall be subject to review and approval by IDEM, OAM, and the ERMD. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
- (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within “normal” parameters and no response steps are required.

- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken. In the event of an emergency, the provisions of 326 IAC 2-7-16 (Emergency Provisions) requiring prompt corrective action to mitigate emissions shall prevail.

C.17 Actions Related to Noncompliance Demonstrated by a Stack Test [326 IAC 2-7-5]
[326 IAC 2-7-6]

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected facility while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to resolve noncompliant stack tests.
- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected facility.

The documents submitted pursuant to this condition do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

C.18 Emission Statement [326 IAC 2-7-5(3)(C)(iii)][326 IAC 2-7-5(7)][326 IAC 2-7-19(c)][326 IAC 2-6]

- (a) The Permittee shall submit an annual emission statement certified pursuant to the requirements of 326 IAC 2-6, that must be received by April 15 of each year and must comply with the minimum requirements specified in 326 IAC 2-6-4. The annual emission statement shall meet the following requirements:
 - (1) Indicate actual emissions of criteria pollutants from the source, in compliance with 326 IAC 2-6 (Emission Reporting);
 - (2) Indicate actual emissions of other regulated pollutants from the source, for purposes of Part 70 fee assessment.
- (b) The annual emission statement covers the twelve (12) consecutive month time period starting December 1 and ending November 30. The annual emission statement must be submitted to:

Indiana Department of Environmental Management
Technical Support and Modeling Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221

- (c) The annual emission statement required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, and the ERMD on or before the date it is due.

C.19 Monitoring Data Availability [326 IAC 2-7-6(1)] [326 IAC 2-7-5(3)]

- (a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.
- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond his/her control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM and the ERMD may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.20 General Record Keeping Requirements [326 IAC 2-7-5(3)][326 IAC 2-7-6]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM, and the ERMD representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner or the ERMD makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner or the ERMD within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;

- (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
- (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.
- (d) All record keeping requirements not already legally required shall be implemented within ninety (90) days of permit issuance.

C.21 General Reporting Requirements [326 IAC 2-7-5(3)(C)]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Semi-annual Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

and

Environmental Resources Management Division
Air Quality Management Section, Data Compliance
2700 South Belmont Avenue
Indianapolis, Indiana 46221
- (c) Unless otherwise specified in this permit, any notice, report, or other submission

required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, and the ERMD on or before the date it is due.

- (d) Unless otherwise specified in this permit, any semi-annual report shall be submitted within thirty (30) days of the end of the reporting period. The reports do not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (e) All instances of deviations as described in Section B- Deviations from Permit Requirements Conditions must be clearly identified in such reports. The Emergency/Deviation Occurrence Report does not require the certification by the "responsible official" as defined by 326 IAC 2-7-1(34).
- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

Stratospheric Ozone Protection

C.22 Compliance with 40 CFR 82 and 326 IAC 22-1

Pursuant to 40 CFR 82 (Protection of Stratospheric Ozone), Subpart F, except as provided for motor vehicle air conditioners in Subpart B, the Permittee shall comply with the standards for recycling and emissions reduction:

- (a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156.
- (b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR 82.158.
- (c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

SECTION D.1 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions:

- (a) One (1) 29.2 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1971, identified as EU-01, exhausting to stack/vent ID 01 with a production capacity of 24,000 pounds per hour of steam.
- (b) One (1) 29.2 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1971, identified as EU-02, exhausting to stack/vent ID 02 with a production capacity of 24,000 pounds per hour of steam.
- (c) One (1) 35.5 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1987, identified as EU-03, exhausting to stack/vent ID 03 with a production capacity of 30,000 pounds per hour of steam.
- (d) One (1) 11.25 mmBtu Superior Waste Gas and Number 2 fuel oil fired boiler, constructed in April 1989, identified as EU-04, exhausting to stack/vent ID 04 and 05 with a production capacity of 7,488 pounds per hour of steam.
- (e) One (1) 35.5 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1993, identified as EU-05, exhausting to stack/vent ID 06 with a production capacity of 30,000 pounds per hour of steam.
- (f) One (1) 11.33 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1992, identified as Emergency Generator #5, exhausting to stack/vent ID 13.
- (g) One (1) 11.33 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1992, identified as Emergency Generator #6, exhausting to stack/vent ID 14.

(The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions.)

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.1.1 SO₂ Emissions Limitations [326 IAC 7-1.1-2(a)(3)] [40 CFR 60, Subpart Dc]

- (a) Pursuant to 326 IAC 7-1.1-2(a)(3) (SO₂ Emissions Limitations) The SO₂ emissions from the five natural gas and Number 2 fuel oil fired boilers identified as EU-01, EU-02, EU-03, EU-04, EU-05, EU-08 and emergency generators identified as Emergency Generator #5 and Emergency Generator #6 shall not exceed five tenths (0.5) pounds per million Btu heat input; or the sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight.
- (b) Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction for EU-05.

D.1.2 Particulate Matter [326 IAC 6-1-12]

Pursuant to 326 IAC 6-1-12 (Particulate Rules) the PM emissions from each of the three (3) Zurn natural gas and Number 2 fuel oil fired boilers identified as EU-01, EU-02, EU-03 shall be limited

as follows:

- a) 0.011 pounds per million Btu (lbs/mmBtu) heat input
- b) 736 million cubic feet per year (mcf/yr) throughput of natural gas per 12 consecutive month period or it's distillate fuel oil equivalent, which is 5544 kgal/yr.

These limits are equivalent to 0.7 tons per year of PM.

D.1.3 Particulate Matter [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating):

- (a) The Particulate Matter (PM) emissions from the 11.25 million Btu per hour boiler, identified as EU-04, shall be limited to 0.03 pounds per million Btu of heat input
- (b) The Particulate Matter (PM) emissions from the 35.5 million Btu per hour boiler, identified as EU-05, shall be limited to 0.03 pounds per million Btu of heat input (mmBtu/hr) heat input.

This limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where: Pt = Pounds of particulate matter emitted per million Btu (lb/mmBtu) heat input

Q = Total source maximum operating capacity rating in million Btu per hour (mmBtu/hr) heat input.

D.1.4 Opacity [40 CFR Part 60.43c]

Pursuant to 40 CFR Part 60.43c, EU-05 shall not discharge into the atmosphere any gases that exceeds 20% opacity.

D.1.5 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for EU-05.

Compliance Determination Requirements

D.1.6 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

The Permittee is not required to test this facility by this permit. However, IDEM may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM or ERMD, compliance with the PM limits specified in Condition D.1.2, D.1.3, shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.1.7 Sulfur Dioxide Emissions and Sulfur Content

Compliance with condition D.1.1 shall be determined utilizing one of the following options.

- (a) Pursuant to 326 IAC 3-7-4, the Permittee shall demonstrate that the fuel oil sulfur content does not exceed five-tenths percent (0.5%) by weight by:
 - (1) Providing vendor analysis of fuel delivered, if accompanied by a certification;

- (2) Analyzing the oil sample to determine the sulfur content of the oil via the procedures in 40 CFR 60, Appendix A, Method 19.
 - (A) Oil samples may be collected from the fuel tank immediately after the fuel tank is filled and before any oil is combusted; and
 - (B) If a partially empty fuel tank is refilled, a new sample and analysis would be required upon filling; or
- (3) Complying with the fuel usage limit
- (b) Compliance may also be determined by conducting a stack test for sulfur dioxide emissions using 40 CFR 60, Appendix A, Method 6 in accordance with the procedures in 326 IAC 3-6.

A determination of noncompliance pursuant to either of the methods specified in (a) or (b) above shall not be refuted by evidence of compliance pursuant to the other method.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.1.8 Visible Emissions Notations

- (a) Daily visible emission notations (when combusting No. 2 fuel) of the stack exhausts for all emission units covered in this section shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, readings shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.1.9 Record Keeping Requirements

- (a) To document compliance with Condition D.1.1, the Permittee shall maintain records in accordance with (1) through (6) below. Note that pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur limit applies at all times for EU-05 including periods of startup, shutdown, and malfunction.
 - (1) Calendar dates covered in the compliance determination period;
 - (2) Actual fuel oil usage since last compliance determination period and equivalent sulfur dioxide emissions;
 - (3) A certification, signed by the owner or operator, that the records of the fuel supplier certifications represent all of the fuel combusted during the period; and

If the fuel supplier certification is used to demonstrate compliance the following, as a minimum, the following shall be maintained:

- (4) Fuel supplier certifications;
- (5) The name of the fuel supplier; and
- (6) A statement from the fuel supplier that certifies the sulfur content of the fuel oil.

The Permittee shall retain records of all recording/monitoring data and support information for a period of five (5) years, or longer if specified elsewhere in this permit, from the date of the monitoring sample, measurement, or report. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit.

- (a) Fuel usage records for emission units EU-01, EU-02, and EU-03.
- (b) To document compliance with Condition D.1.8, the Permittee shall maintain records of daily visible emission notations of the stack exhausts for all emission units covered in this section.
- (c) All records shall be maintained in accordance with Section C - General Record Keeping Requirements, of this permit.

D.1.10 Reporting Requirements

A semi-annual summary of the information to document compliance with Condition D.1.1 (Report fuel usage to show compliance with 40 CFR 60, Subpart Dc), Condition D.1.2 and the natural gas fired boiler certification, shall be submitted to the address listed in Section C - General Reporting Requirements, using the forms located at the end of this permit, or their equivalent, within thirty (30) days after the end of the six (6) month period being reported.

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions:

- (a) One (1) Joy Technologies medical and general waste incinerator, constructed in 1989, identified as EU-07 exhausting to stack/vent 07, with input capacity of 1500 pounds per hour, with no control. Burns medical infectious waste, general waste, cardboard waste, and food services waste. Has two chambers; chamber one operated at 1420-1650 degrees and chamber two operates at 1950 degrees.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.2.1 Burning Regulations for Incinerators (PM) [326 IAC 4-2]

Pursuant to 326 IAC 4-2-2, Burning Regulations for Incinerators, the medical and general waste incinerator identified as EU-07, shall:

- (a) Consist of primary and secondary chambers or the equivalent.
- (b) Be equipped with a primary burner unless burning wood products.
- (c) Comply with 326 IAC 5-1 (Opacity limitations).
- (d) Be maintained properly as specified by the manufacturer and approved by IDEM.
- (e) Be operated according to the manufacturer's recommendation and only burn waste approved by IDEM.
- (f) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators.
- (g) Be operated so that emissions of hazardous materials including, but not limited to, viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented.
- (h) Not create a nuisance or a fire hazard.
- (i) Not emit particulate matter in excess of three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard conditions corrected to fifty percent (50%) excess air.

The operation of the incinerator shall be terminated immediately upon noncompliance with any of the above mentioned requirements.

D.2.2 Carbon Monoxide [326 IAC 9-1-2]

Pursuant to 326 IAC 9-1-2(3), Carbon Monoxide emission limits for refuse incineration and burning equipment, the Joy Technologies medical and general waste incinerator, identified as EU-07 exhausting to stack/vent 07, with input, shall not discharge carbon monoxide unless the waste gas stream is burned in a direct-flame afterburner or is controlled by other means approved by the commissioner.

D.2.3 General Provisions Relating to NSPS [326 IAC 12-1][40 CFR Part 60, Subpart A]

The provisions of 40 CFR 60, Subpart A - General Provisions, which are incorporated by reference in 326 IAC 12-1, apply to the facility described in this section except when otherwise specified in 40 CFR 60, Subpart C.

D.2.4 Hospital/Medical/Infectious Waste Incinerators [326 IAC 11-6]

- (a) The medical waste incinerator is subject to 326 IAC 11-6 and 40 CFR 60, Subpart C with a compliance date of one year after the effective date of the rule, unless the facility is undergoing retrofit to come into compliance where compliance is required no later than March 31, 2002.
- (b) Pursuant to 326 IAC 11-6 and 40 CFR 60, Subpart C, the medical waste incinerator shall comply with the following emission limits:

- (1) Particulate Matter emissions shall not exceed 0.015 grains per dry standard cubic foot;

Compliance with this condition satisfies the requirements of 326 IAC 6-2-4

- (2) Carbon Monoxide emissions shall not exceed 40 parts per million by volume;
- (3) Dioxins/furans shall not exceed 55 grains per billion dry standard cubic feet total dioxins/furans or 1.0 grains per billion dry standard cubic feet toxic equivalent quantity (TEQ);
- (4) Hydrogen chloride emissions shall not exceed 100 parts per million by volume or a 93% reduction;
- (5) Sulfur dioxide emissions shall not exceed 55 parts per million by volume;
- (6) Nitrogen oxide emissions shall not exceed 250 parts per million by volume;
- (7) Lead emissions shall not exceed 0.52 grains per thousand dry standard cubic feet or a 70% reduction;
- (8) Cadmium emissions shall not exceed 0.07 grains per thousand dry standard cubic feet or a 65% reduction;
- (9) Mercury emissions shall not exceed 0.24 grains per thousand dry standard cubic feet or a 85% reduction;
- (10) Discharge into the atmosphere of any gases shall not exceed ten percent (10%) opacity.

D.2.5 Operator Training and Qualification Requirements [326 IAC 11-6-5]

The medical waste incinerator shall not operate at any time unless a fully trained and qualified Hospital/Medical/Infectious Waste Incinerator (HMIWI) operator is accessible either at the facility or available within one (1) hour. The following documentation shall be maintained at the facility and an initial review of the information with each HMIWI operator shall be conducted within one (1) year after the effective date of this rule and annually, thereafter:

- (a) Summary of the applicable standards;
- (b) Description of basic combustion theory applicable to an HMIWI;
- (c) Procedures for receiving, handling, and charging waste;
- (d) HMIWI startup, shutdown and malfunction procedures;
- (e) Procedures for maintaining proper combustion air supply levels;
- (f) Procedures for operating the HMIWI and associated air pollution control systems;
- (g) Procedures for responding to periodic malfunction or conditions that may lead to malfunction;
- (h) Procedures for monitoring HMIWI emissions;
- (i) Reporting and record keeping;
- (j) Procedures for handling ash.

D.2.6 Waste Management Plan [326 IAC 11-6-6]

1. Pursuant to 326 IAC 11-6-6 and 40 CFR 60.55c, the Permittee shall prepare a waste management plan (WMP).

- (a) The WMP must identify both the feasibility and approach to separate certain components of solid waste from the health care waste stream, in order to reduce the amount of toxic emissions from incinerated waste.
- (b) The WMP may include, but is not limited to:
 - (i) elements such as paper, cardboard, plastics, glass, battery, or metal recycling; or
 - (ii) purchasing recycled or recycle products.
- (c) The WMP may include different goals or approaches for different areas or departments of the facility and need not include new waste management goals for every waste stream.
- (d) The WMP should identify, where possible:
 - (i) reasonably available additional waste management measures,
 - (ii) taking into account the effectiveness of waste management measures already in place,
 - (iii) the cost of additional measures,
 - (iv) the emission reductions expected to be achieved, and
 - (v) any other environmental or energy impacts they might have.
- (e) The American Hospital Association publication entitled "An Ounce of Prevention: Waste Reduction Strategies" shall be considered in the development of the WMP.

2. Additional Requirements:

- (a) The WMP shall address proper waste segregation.
- (b) The WMP shall address the management of each waste stream to assure that the Permittee is in compliance with local, state, and federal waste management rules.
- (c) The WMP shall address proper management of all mercury-containing items.
- (d) The WMP shall identify all items that could become mercury-containing wastes.
- (e) Mercury-containing items that must be included and identified, at a minimum, are:
 - (i) Mercury-containing thermometers (silver-colored liquid inside)
 - (ii) Mercury-containing thermostats (non-electronic)
 - (iii) Fluorescent and other mercury vapor lighting (high intensity discharge - HID, metal halide, high pressure sodium and neon bulbs)
 - (iv) Gauges, such as barometers, manometers, blood pressure and vacuum gauges with silver-colored liquid
 - (v) Batteries (mercuric oxide and some alkaline batteries)
 - (vi) Paint (latex manufactured before 1990, and some oil base-paints; the Permittee shall check with manufacturer)
 - (vii) Thimerosal or merbromin (in some antibacterial products)
 - (viii) Elemental mercury (from laboratories)
 - (ix) Esophageal Dilators
 - (x) Laboratory fixatives
 - (xi) Tilt switches and other equipment that contains mercury

- (f) The WMP shall include plans to eliminate, where possible, all mercury-containing items from the waste stream of the incinerator.
- (g) The WMP shall address the training of all affected staff on proper waste management practices of mercury-containing items and other solid, hazardous and medical waste items.
- (g) The Permittee shall have WMPs in place for all facilities or hospitals owned or operated by the Permittee that are sending waste to this incinerator. Each WMP shall comply with all requirements of this condition.

D.2.7 Preventive Maintenance Plan [326 IAC 2-7-5(13)]

A Preventive Maintenance Plan, in accordance with Section B - Preventive Maintenance Plan, of this permit, is required for this facility and any control devices.

Compliance Determination Requirements

D.2.8 Testing Requirements [326 IAC 2-7-6(1),(6)] [326 IAC 11-6-7]

- (a) Pursuant to 326 IAC 11-6 and 40 CFR 60, Subpart Ce, an initial performance test to demonstrate compliance with Condition D.2.4 must be conducted no later than March 31st 2002. Compliance shall be determined according to 326 IAC 3-6 concerning source sampling procedures and 40 CFR 60, Subpart Ec, Section 60.56c, excluding the fugitive emissions testing requirements under Section 60.56c(b)(12) and 60.56(c)(3).
- (b) Pursuant to 40 CFR 60.56(c)(2) and (3), annual performance testing to demonstrate compliance with the PM, CO, HCl and opacity emission limits established in D.2.4 shall be performed annually (no more than 12 months following the previous performance test) using the applicable procedures and test methods listed in 40 CFR 60.56c(b).
 - (1) If all three performance tests over a 3-year period indicate compliance with the emission limit for a pollutant (PM, CO, or HCL), the owner or operator may forego a performance test for that pollutant for the subsequent 2 years.
 - (i) At a minimum, a performance test for PM, CO, and HCL shall be conducted every third year (no more than 36 months following the previous performance test).
 - (ii) If a performance test conducted every third year indicates compliance with the emission limit for a pollutant (PM, CO, or HCL), the owner or operator may forego a performance test for that pollutant for an additional 2 years.
 - (iii) If any performance test indicates noncompliance with the respective emission limit, a performance test for that pollutant shall be conducted annually until all annual performance tests over a 3-year period indicate compliance with the emission limit.

- (2) The use of the bypass stack during a performance test shall invalidate the performance test.
- (c) IDEM may require compliance testing at any specific time when necessary to determine if the facility is in compliance. If testing is required by IDEM, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.2.9 Compliance Date [326 IAC 11-6-9]

Pursuant to 326 IAC 11-6-9, the source shall install the necessary air pollution control equipment and be in compliance with all provisions of this rule no later than March 31, 2002, provided the following measurable and enforceable incremental steps of progress are taken:

- (a) Submit a final control plan no later than June 30, 1999 (already submitted);
- (b) Award contracts for emissions control systems or for process modifications, or issuance of orders for the purchase of component parts to accomplish emission control or process modifications no later than March 31, 2000;
- (c) Initiate on-site construction or installation of emission control equipment or process change no later than March 31, 2001;
- (d) Complete on-site construction or installation of emission control equipment or process change no later than September 30, 2001;
- (e) Be in final compliance no later than March 31, 2002.
- (f) The source shall be in compliance with the operator training and qualification requirements within one (1) year after the effective date of this rule.

Compliance Monitoring Requirements [326 IAC 2-7-6(1)] [326 IAC 2-7-5(1)]

D.2.10 Monitoring [326 IAC 11-6-7]

- (a) Compliance monitoring shall be performed according to 40 CFR 60.57c, based on the type of control equipment installed.
- (b) The Permittee shall obtain monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data shall be obtained for 75 percent of the operating hours per day and for 90 percent of the operating days per calendar quarter that the affected facility is combusting hospital, medical and/or infectious waste.

D.2.11 Visible Emissions Notations

- (a) Daily visible emission notations of the medical waste incinerator stack exhaust, WDS-01, shall be performed during normal daylight operations until the final compliance date of March 31, 2002. A trained employee shall record whether emissions are normal or abnormal.
- (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty (80) percent of the time the process is in operation, not counting startup or shut down time.
- (c) In the case of batch or discontinuous operations, reading shall be taken during that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.

- (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

Record Keeping and Reporting Requirements [326 IAC 2-7-5(3)] [326 IAC 2-7-19]

D.2.12 Record Keeping Requirements

- (a) To document compliance with Condition D.2.4, the Permittee shall maintain information on site for a period of at least 5 years sufficient to establish compliance with 40 CFR 60.58c, based on the control equipment installed.
- (b) To document compliance with Condition D.2.11, the Permittee shall maintain records of daily visible emission notations of the incinerator stack exhaust, EU-07, until the final compliance date of March 31, 2002.

D.2.13 Reporting Requirements

- (a) The Permittee shall submit a final control plan no later than June 30, 1999 (already submitted).
- (b) The Permittee shall submit the following information no later than 60 days following the initial performance test:
 - (1) The initial performance test data;
 - (2) The values for the site-specific operating parameters, as applicable [40 CFR 60.56c(d) or (i)];
 - (3) The waste management plan.
- (c) Upon the compliance date, the Permittee must submit a semi-annual report, including the following information:
 - (1) The values for the site-specific operating parameters, as applicable;
 - (2) The highest maximum operating parameter and the lowest operating parameter, as applicable, for the year being reported;
 - (3) The highest maximum operating parameter and the lowest operating parameter as applicable, for the year preceding the year being reported;
 - (4) Identification of calendar days, times, description and durations of malfunctions; calendar days of emission rates or operating parameters not measured and the reason; and calendar days of emissions rates or operating parameters exceeding the applicable limits; for the year being reported;
 - (5) Identification of calendar days, times, description and durations of malfunctions; calendar days of emission rates or operating parameters not measured and the reason; and calendar days of emissions rates or operating parameters exceeding the applicable limits; for the preceding year being reported;
 - (6) If a performance test was conducted during the reporting period, the results of that test;
 - (7) If no exceedances or malfunctions were reported for the calendar year being reported, a statement that no exceedances occurred during the reporting period;

- (8) Any use of the bypass stack, the duration, reason for malfunction and corrective action taken;
- (d) The reports required in (a), (b) and (c) of this condition shall be submitted to the address listed in Section C - General Reporting Requirements.

SECTION D.3 FACILITY OPERATION CONDITIONS - Insignificant Activities

Facility Description [326 IAC 2-7-5(15)] The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions:

- (a) One (1) 1.71 mmBtu Superior natural gas and Number 2 fuel oil fired boiler, constructed in 1989, identified as EU-05, exhausting to stack/vent ID 06.
- (b) One (1) 5.3 mmBtu H.B. Smith natural gas and Number 2 fuel oil fired boiler constructed in 1985, identified as EU-08, exhausting to stack/vent ID 08.

Emission Limitations and Standards [326 IAC 2-7-5(1)]

D.3.1 Particulate Matter [326 IAC 6-2-4]

Pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating):

- (a) The Particulate Matter (PM) emissions from the boiler identified as EU-08 shall be limited to 0.03 pounds of particulate matter emitted per million Btu (lb/mmBtu) heat input

The limitation is based on the following equation:

$$Pt = \frac{1.09}{Q^{0.26}}$$

Where: Pt = Pounds of particulate matter emitted per million Btu (lb/mmBtu) heat input
(mmBtu/hr) Q = Total source maximum operating capacity rating in million Btu per hour heat input.

Compliance Determination Requirements

D.3.2 Testing Requirements [326 IAC 2-7-6(1),(6)][326 IAC 2-1.1-11]

The Permittee is not required to test this facility by this permit. However, IDEM and ERMD may require compliance testing when necessary to determine if the facility is in compliance. If testing is required by IDEM or ERMD, compliance shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

and

**INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT DIVISION
AIR QUALITY MANAGEMENT SECTION**

**PART 70 OPERATING PERMIT
CERTIFICATION**

Source Name: Saint Vincent Hospitals and Health Services
Source Address: 2001 W. 86th Street, Indianapolis, Indiana 46240
Mailing Address: 2001 W. 86th Street, Indianapolis, Indiana 46240
Part 70 Permit No.: T097-7469-00129

This certification shall be included when submitting monitoring, testing reports/results or other documents as required by this permit.

Please check what document is being certified:

☒ Annual Compliance Certification Letter

☐ Test Result (specify) _____

☐ Report (specify) _____

☐ Notification (specify) _____

☐ Other (specify) _____

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

P.O. Box 6015
100 North Senate Avenue
Indianapolis, Indiana 46206-6015
Phone: 317-233-5674
Fax: 317-233-5967
and

**INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT DIVISION
AIR QUALITY MANAGEMENT SECTION**

2700 South Belmont Ave.
Indianapolis Indiana 46221
Phone: 317-327-2234
Fax: 317-327-2274

**PART 70 OPERATING PERMIT
EMERGENCY/DEVIATION OCCURRENCE REPORT**

Source Name: Saint Vincent Hospitals and Health Services
Source Address: 2001 W. 86th Street, Indianapolis, Indiana 46240
Mailing Address: 2001 W. 86th Street, Indianapolis, Indiana 46240
Part 70 Permit No.: T097-7469-00129

This form consists of 2 pages

Page 1 of 2

Check either No. 1 or No.2	
9	1. This is an emergency as defined in 326 IAC 2-7-1(12) C The Permittee must notify the Office of Air Management (OAM), within four (4) business hours (1-800-451-6027 or 317-233-5674, ask for Compliance Section); and C The Permittee must submit notice in writing or by facsimile within two (2) days (Facsimile Number: 317-233-5967), and follow the other requirements of 326 IAC 2-7-16
9	2. This is a deviation, reportable per 326 IAC 2-7-5(3)(C) C The Permittee must submit notice in writing within ten (10) calendar days

If any of the following are not applicable, mark N/A

Facility/Equipment/Operation:
Control Equipment:
Permit Condition or Operation Limitation in Permit:
Description of the Emergency/Deviation:

Describe the cause of the Emergency/Deviation:

If any of the following are not applicable, mark N/A

**Page 2
of 2**

Date/Time Emergency/Deviation started:

Date/Time Emergency/Deviation was corrected:

Was the facility being properly operated at the time of the emergency/deviation? Y N
Describe:

Type of Pollutants Emitted: TSP, PM-10, SO₂, VOC, NO_x, CO, Pb, other:

Estimated amount of pollutant(s) emitted during emergency/deviation:

Describe the steps taken to mitigate the problem:

Describe the corrective actions/response steps taken:

Describe the measures taken to minimize emissions:

If applicable, describe the reasons why continued operation of the facilities are necessary to prevent imminent injury to persons, severe damage to equipment, substantial loss of capital investment, or loss of product or raw materials of substantial economic value:

Form Completed by: _____
Title / Position: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

and

**INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT
DIVISION
AIR QUALITY MANAGEMENT SECTION**

**PART 70 OPERATING PERMIT
NATURAL GAS FIRED BOILER CERTIFICATION**

Source Name: Saint Vincent Hospitals and Health Services
Source Address: 2001 W. 86th Street, Indianapolis, Indiana 46240
Mailing Address: 2001 W. 86th Street, Indianapolis, Indiana 46240
Part 70 Permit No.: T097-7469-00129

**This certification shall be included when submitting monitoring, testing reports/results
or other documents as required by this permit.**

Report period

Beginning: _____

Ending: _____

Boiler Affected

Alternate Fuel
FromTo

Days burning alternate fuel

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Signature:

Printed Name:

Title/Position:

Date:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
 OFFICE OF AIR MANAGEMENT
 COMPLIANCE DATA SECTION**

**INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT DIVISION
 AIR QUALITY MANAGEMENT SECTION, DATA COMPLIANCE**

Semi-Annual Report

Source Name: Saint Vincent Hospitals and Health Services
 Source Address: 2001 W. 86th Street, Indianapolis, Indiana 46240
 Mailing Address: 2001 W. 86th Street, Indianapolis, Indiana 46240
 Part 70 Permit No.: T097-7469-00129
 Facility: Boilers EU-01, EU-02, EU-03, EU-04, EU-05, EU-08
 Parameter: Natural Gas and fuel oil

Month	N a t u r a l G a s b u r n e d t h i s m o n t h	Fuel Oil this mnth	Natural Gas (for fuel oil) equivale nce this month	Natural Gas and equivalence for previous 11 months	Total Natu ral gas and equi vale nce for 12 mont h perio d

9 Deviation/s occurred in this month.
Deviation has been reported on: _____

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION
and**

**INDIANAPOLIS ENVIRONMENTAL RESOURCES MANAGEMENT DIVISION
AIR QUALITY MANAGEMENT SECTION**

**PART 70 OPERATING PERMIT
SEMI-ANNUAL COMPLIANCE MONITORING REPORT**

Source Name: Saint Vincent Hospitals and Health Services
Source Address: 2001 W. 86th Street, Indianapolis, Indiana 46240
Mailing Address: 2001 W. 86th Street, Indianapolis, Indiana 46240
Part 70 Permit No.: T097-7469-00129

Months: _____ **to** _____ **Year:** _____

This report is an affirmation that the source has met all the compliance monitoring requirements stated in this permit. This report shall be submitted semi-annually. Any deviation from the compliance monitoring requirements and the date(s) of each deviation must be reported. Additional pages may be attached if necessary. This form can be supplemented by attaching the Emergency/Deviation Occurrence Report. If no deviations occurred, please specify in the box marked "No deviations occurred this reporting period".

9 NO DEVIATIONS OCCURRED THIS REPORTING PERIOD.

9 THE FOLLOWING DEVIATIONS OCCURRED THIS REPORTING PERIOD.

Compliance Monitoring Requirement (e.g. Permit Condition D.1.3)	Number of Deviations	Date of each Deviation

Form Completed By: _____
Title/Position: _____
Date: _____
Phone: _____

Attach a signed certification to complete this report.

Attachment A

The following state rules have been adopted by reference by the Indianapolis Air Pollutant Control Board and are enforceable by Indianapolis Environmental Resources Management Division (ERMD) using local enforcement procedures.

- (1) 326 IAC 1-1-1 through 1-1-3 and 1-1-5;
- (2) 326 IAC 1-2-1 through 1-2-91 (In addition, the IAPCB has adopted several local definitions);
- (3) 326 IAC 1-3-1 through 1-3-4;
- (4) 326 IAC 1-4-1 (The IAPCB added to the adoption by reference a citation to 61 FR 58482 (November 15, 1996));
- (5) 326 IAC 1-5-1 through 1-5-5;
- (6) 326 IAC 1-6-1 through 1-6-6;
- (7) 326 IAC 1-7-1 through 1-7-5;
- (8) 326 IAC 2-3-1 through 2-3-5;
- (9) 326 IAC 2-4-1 through 2-4-6;
- (10) 326 IAC 2-6-1 through 2-6-4;
- (11) 326 IAC 2-7-1 through 2-7-18, 2-7-20 through 2-7-25;
- (12) 326 IAC 2-8-1 through 2-8-15, 2-8-17 through 2-8-10;
- (13) 326 IAC 2-9-1 through 2-9-14;
- (14) 326 IAC 2-10-1 through 2-10-5 (The IAPCB adoption adds the language "state or local" immediately after the word "federal" in 326 IAC 2-10-1);
- (15) 326 IAC 2-11-1, 2-11-3 and 2-11-4 (The IAPCB adoption adds the language "federal, state or local" immediately after the word "by" in 326 IAC 2-11-1);
- (16) 326 IAC 3-1.1-1 through 3-1.1-5;
- (17) 326 IAC 3-2.1-1 through 3-2.1-5;
- (18) 326 IAC 3-3-1 through 3-3-5;
- (19) 326 IAC 4-2-1 through 4-2-2;
- (20) 326 IAC 5-1-1 (a), (b) and c) (5), 5-1-2 (1), (2)(A), (2)c) (4), 5-1-3 through 5-1-5, 5-1-7;
- (21) 326 IAC 7-1.1-1 and 7-1.1-2;
- (22) 326 IAC 7-2-1;
- (23) 326 IAC 7-3-1 and 7-3-2;
- (24) 326 IAC 7-4-2(28) through (31) (Instead of adopting by reference 7-4-2(1) through (27), the IAPCB regulation substitutes the same requirements listed in a format in which the companies are alphabetized and emission points known to no longer exist have been deleted);
- (25) 326 IAC 8-1-0.5 except (b), 8-1-1 through 8-1-2, 8-1-3 except c), (g) and (i), 8-1-5 through 8-1-12;
- (26) 326 IAC 8-2-1 through 8-2-12 (The IAPCB adoption by reference of 8-2-5 adds additional language specific to Zimmer Paper Products, Incorporated as subpart c);
- (27) 326 IAC 8-3-1 through 8-3-7;
- (28) 326 IAC 8-4-1 through 8-4-5, 8-4-6 (a)(6), (a)(8) and (a)(14) and 8-4-6(b)(1), (b)(3) and 8-4-6c) (In place of 8-4-6(b)(2), which was not adopted, the IAPCB adopted language requiring a pressure relief valve set to release at no less than four and eight-tenths (4.8) Kilo Pascals (seven-tenths (0.7) pounds per square inch)), 8-4-7 except (e), 8-4-8 and 8-4-9;
- (29) 326 IAC 8-5-1 through 8-5-4, 8-5-5 except (a)(3) and (d)(3);
- (30) 326 IAC 8-6-1 and 8-6-2;
- (31) 326 IAC 9-1-1 and 9-1-2;
- (32) 326 IAC 11-1-1 through 11-1-2;
- (33) 326 IAC 11-2-1 through 11-2-3;
- (34) 326 IAC 11-3-1 through 11-3-6;
- (35) 326 IAC 14-1-1 through 14-1-4;

Attachment A continued

- (36) 326 IAC 14-2-1 except 40 CFR 61.145;
- (37) 326 IAC 14-3-1;
- (38) 326 IAC 14-4-1;
- (39) 326 IAC 14-5-1;
- (40) 326 IAC 14-6-1;
- (41) 326 IAC 14-7-1;
- (42) 326 IAC 14-8-1 through 14-8-5;
- (43) 326 IAC 15-1-1, 15-1-2(a)(1), (a)(2) and (a)(8), 15-1-3 and 15-1-4;
- (44) 326 IAC 20-1-1 through 20-1-4 (In 20-1-3(b)(2) the adoption states that "permitting authority" means the commissioner of IDEM or the administrator of ERMD, whichever is applicable);
- (45) 326 IAC 20-2-1;
- (46) 326 IAC 20-3-1;
- (47) 326 IAC 20-4-1;
- (48) 326 IAC 20-5-1;
- (49) 326 IAC 20-6-1;
- (50) 326 IAC 20-7-1;
- (51) 326 IAC 20-8-1;
- (52) 326 IAC 20-9-1;
- (53) 326 IAC 20-14-1;
- (54) 326 IAC 20-15-1;
- (55) 326 IAC 20-16-1;
- (56) 326 IAC 20-17-1;
- (57) 326 IAC 20-18-1;
- (58) 326 IAC 20-19-1;
- (59) 326 IAC 20-20-1;
- (60) 326 IAC 20-21-1;
- (61) 326 IAC 21-1-1 (The adoption states that "or the administrator of ERMD" is added in (b));
- (62) 326 IAC 22-1-1 (The adoption states that "or the administrator of ERMD" is added in (b)).

**Indiana Department of Environmental Management
Office of Air Management and
City of Indianapolis
Environmental Resource Management Division**

Addendum to the
Technical Support Document for a Part 70 Operating Permit

Source Name: Saint Vincents Hospitals and Health Services
Source Location: 2001 West 86th Street, Indianapolis, Indiana 46202
County: Marion
SIC Code: 8062
Permit No.: T097-7469-00129
Permit Reviewer: Kevin Leone

On October 21st, 1999, the Office of Air Management (OAM) and Environment Resource Management Division had a notice published in the Indianapolis Star and News, Indianapolis, Indiana, stating that Saint Vincents Hospitals and Health Services had applied for a Part 70 Operating Permit to operate a General Medical and Surgical Hospital. The notice also stated that OAM and ERMD proposed to issue a permit for this operation and provided information on how the public should review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

The following change to the draft Title V Permit and TSD will be made. The TSD will remain as it originally appeared when published. OAM and ERMD prefer that the Technical Support Document reflect the permit that was on public notice. Changes to the permit or technical support material that occur after the permit has been published are documented in this Addendum to the Technical Support Document. This accomplishes the desired result of ensuring that these types of concerns are documented and part of the record regarding this permit decision. (bolded language has been added, the language with a line through it has been deleted):

Change 1:

D.2.6 has been changed as follows:

D.2.6 Waste Management Plan [326 IAC 11-6-6] ~~[40 CFR 60.35e]~~

~~The source shall prepare and submit a waste management plan as specified in 40 CFR 60.55e no later than sixty (60) days following the initial performance test. The plan must identify both the feasibility and the approach to separate certain components of solid waste from the health care waste stream in order to reduce the amount of toxic emissions from incinerated waste.~~

1. Pursuant to 326 IAC 11-6-6 and 40 CFR 60.55c, the Permittee shall prepare a waste management plan (WMP).

(a) The WMP must identify both the feasibility and approach to separate certain components of solid waste from the health care waste stream, in order to reduce the amount of toxic emissions from incinerated waste.

- (b) **The WMP may include, but is not limited to:**
 - (i) **elements such as paper, cardboard, plastics, glass, battery, or metal recycling; or**
 - (ii) **purchasing recycled or recycle products.**
- (c) **The WMP may include different goals or approaches for different areas or departments of the facility and need not include new waste management goals for every waste stream.**
- (d) **The WMP should identify, where possible:**
 - (i) **reasonably available additional waste management measures,**
 - (ii) **taking into account the effectiveness of waste management measures already in place,**
 - (iii) **the cost of additional measures,**
 - (iv) **the emission reductions expected to be achieved, and**
 - (v) **any other environmental or energy impacts they might have.**
- (e) **The American Hospital Association publication entitled “An Ounce of Prevention: Waste Reduction Strategies” shall be considered in the development of the WMP.**

2. Additional Requirements:

- (a) **The WMP shall address proper waste segregation.**
- (b) **The WMP shall address the management of each waste stream to assure that the Permittee is in compliance with local, state, and federal waste management rules.**
- (c) **The WMP shall address proper management of all mercury-containing items.**
- (d) **The WMP shall identify all items that could become mercury-containing wastes.**
- (e) **Mercury-containing items that must be included and identified, at a minimum, are:**
 - (i) **Mercury-containing thermometers (silver-colored liquid inside)**
 - (ii) **Mercury-containing thermostats (non-electronic)**
 - (iii) **Fluorescent and other mercury vapor lighting (high intensity discharge - HID, metal halide, high pressure sodium and neon bulbs)**
 - (iv) **Gauges, such as barometers, manometers, blood pressure and vacuum gauges with silver-colored liquid**
 - (v) **Batteries (mercuric oxide and some alkaline batteries)**
 - (vi) **Paint (latex manufactured before 1990, and some oil base-paints; the Permittee shall check with manufacturer)**
 - (vii) **Thimerosal or merbromin (in some antibacterial products)**
 - (viii) **Elemental mercury (from laboratories)**
 - (ix) **Esophageal Dilators**
 - (x) **Laboratory fixatives**

- (xi) **Tilt switches and other equipment that contains mercury**
- (f) **The WMP shall include plans to eliminate, where possible, all mercury-containing items from the waste stream of the incinerator.**
- (g) **The WMP shall address the training of all affected staff on proper waste management practices of mercury-containing items and other solid, hazardous and medical waste items.**
- (g) **The Permittee shall have WMPs in place for all facilities or hospitals owned or operated by the Permittee that are sending waste to this incinerator. Each WMP shall comply with all requirements of this condition.**

Change 2:

D.2.has been changed as follows:

SECTION D.2 FACILITY OPERATION CONDITIONS

Facility Description [326 IAC 2-7-5(15)] The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions:

- (a) One (1) Joy Technologies medical and general waste incinerator, constructed in 1989, identified as EU-07 exhausting to stack/vent 07, with input capacity of 1500 pounds per hour, with no control. Burns medical infectious waste, general waste, cardboard waste, and food services waste. Has two chambers; chamber one operated at 1420-1650 degrees and chamber two operates at 1950 degrees.

Change 3:

D.3.has been changed as follows:

SECTION D.3 FACILITY OPERATION CONDITIONS - Insignificant Activities

Facility Description [326 IAC 2-7-5(15)] The information describing the process contained in this facility description box is descriptive information and does not constitute enforceable conditions:

- (a) One (1) 1.71 mmBtu Superior natural gas and Number 2 fuel oil fired boiler, constructed in 1989, identified as EU-05, exhausting to stack/vent ID 06.
- (b) One (1) 5.3 mmBtu H.B. Smith natural gas and Number 2 fuel oil fired boiler constructed in 1985, identified as EU-08, exhausting to stack/vent ID 08.

**Indiana Department of Environmental Management
Office of Air Management
and Indianapolis Environmental Resource Management Division**

Technical Support Document (TSD) for a Part 70 Operating Permit

Source Background and Description

Source Name: Saint Vincent Hospitals and Health Services
Source Location: 2001 W. 86th Street, Indianapolis, Indiana 46240
County: Marion
SIC Code: 8062
Operation Permit No.: T097-7469-00129
Permit Reviewer: Kevin Leone

The Office of Air Management (OAM) has reviewed a Part 70 permit application from St. Vincent Hospitals and Health Services relating to the operation of General Medical and Surgical Hospital.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) 29.2 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1971, identified as EU-01, exhausting to stack/vent ID 01 with a production capacity of 24,000 pounds per hour of steam.
- (b) One (1) 29.2 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1971, identified as EU-02, exhausting to stack/vent ID 02 with a production capacity of 24,000 pounds per hour of steam.
- (c) One (1) 35.5 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1987, identified as EU-03, exhausting to stack/vent ID 03 with a production capacity of 30,000 pounds per hour of steam.
- (d) One (1) 11.25 mmBtu Superior Waste Gas and Number 2 fuel oil fired boiler, constructed in April 1989, identified as EU-04, exhausting to stack/vent ID 04 and 05 with a production capacity of 7,488 pounds per hour of steam.
- (e) One (1) 35.5 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, constructed in 1987, identified as EU-05, exhausting to stack/vent ID 06 with a production capacity of 30,000 pounds per hour of steam.
- (f) One (1) 11.33 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1992, identified as Emergency Generator #5, exhausting to stack/vent ID 13.
- (g) One (1) 11.33 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1992, identified as Emergency Generator #6, exhausting to stack/vent ID 14.
- (h) One (1) Joy Technologies medical and general waste incinerator, constructed in 1989,

identified as EU-07 exhausting to stack/vent 07, with input capacity of 1500 pounds per hour, with no control. Burns medical infectious waste, general waste, cardboard waste, and food services waste. Has two chambers; chamber one operated at 1420-1650 degrees and chamber two operates at 1950 degrees.

Unpermitted Emission Units and Pollution Control Equipment

There are no unpermitted facilities operating at this source during this review process.

Insignificant Activities

- (a) One (1) 1.71 mmBtu Superior natural gas and Number 2 fuel oil fired boiler, constructed in 1989, identified as EU-05, exhausting to stack/vent ID 06.
- (b) One (1) 5.3 mmBtu H.B. Smith natural gas and Number 2 fuel oil fired boiler constructed in 1985, identified as EU-08, exhausting to stack/vent ID 08.
- (c) One (1) 6.95 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1971, identified as Emergency Generator #1, exhausting to stack/vent ID 09.
- (d) One (1) 6.95 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1971, identified as Emergency Generator #2, exhausting to stack/vent ID 10.
- (e) One (1) 6.95 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1981, identified as Emergency Generator #3, exhausting to stack/vent ID 11.
- (f) One (1) 7.08 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1985, identified as Emergency Generator #4, exhausting to stack/vent ID 12.
- (g) One (1) 2.96 mmBtu Caterpillar Number 2 fuel oil fired emergency generator, constructed in 1985, identified as Emergency Generator #7, exhausting to stack/vent ID 15.

Existing Approvals

The source has been operating under previous approvals including, but not limited to, the following:

- (a) Operating Permit 0129, issued March 28th, 1995;

All conditions from previous approvals were incorporated into this Part 70 permit.

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the Part 70 permit be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

A notice of completeness letter was mailed to the source on December 16, 1996.

Emission Calculations

See Appendix A, pages 1 through 6 of this document for detailed emissions calculations.

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA.”

Pollutant	Potential To Emit (tons/year)
PM	20.84
PM-10	20.84
SO ₂	182.3
VOC	12.72
CO	52.99
NO _x	66.69

Note: For the purpose of determining Title V applicability for particulates, PM-10, not PM, is the regulated pollutant in consideration.

HAP's	Potential To Emit (tons/year)
Hydrogen Chloride Gas	110.05
Mercury	0.003
Lead	0.24
Hydrogen Fluoride Gas	0.35
TOTAL	110.64

- (a) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of Sulfur Dioxide (SO₂) and Nitrogen Dioxide (NO₂) is equal to or greater than 100 tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.
- (b) The potential to emit (as defined in 326 IAC 2-1.1-1(16)) of any single HAP is equal to or greater than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPs is greater than or equal to twenty-five (25) tons per year. Therefore, the source is subject to the provisions of 326 IAC 2-7.

Actual Emissions

The following table shows the actual emissions from the source. Actual emissions are based on the emission summary submitted in the Title V Permit Application received December 16, 1996.

Pollutant	Actual To Emit (tons/year)
PM	0.34
PM-10	0.34
SO ₂	0.39
VOC	0.05
CO	2.24
NO _x	2.72
Hydrogen Chloride Gas	12.88
Hydrogen Fluoride Gas	0.01
Chlorine	0.08
Ethylene Oxide	0.02

Note: For the purpose of determining Title V applicability for particulates,

PM-10, not PM, is the regulated pollutant in consideration.

	Limited Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO ₂	VOC	CO	NO _x	
EU-01	0.7	0.7	26.0	0.1	1.8	7.3	
EU-02	0.7	0.7	26.0	0.1	1.8	7.3	
EU-03	0.7	0.7	26.0	0.1	1.8	7.3	
Total Emissions	2.1	2.1	78.0	0.3	5.4	21.6	

County Attainment Status

The source is located in Marion County.

Pollutant	Status
PM-10	attainment
SO ₂	attainment
NO ₂	attainment
Ozone	attainment
CO	attainment
Lead	attainment

Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC and NO_x emissions are considered when evaluating the rule applicability relating to the ozone standards. Marion County has been designated as attainment or unclassifiable for ozone.

Federal Rule Applicability

- (a) The 35.5 mmBtu Zurn natural gas and Number 2 fuel oil fired boiler, identified as EU-05, is subject to the requirements of the New Source Performance Standard, 326 IAC 12, (40 CFR 60., Subpart Dc). The following limits and requirements from Subpart Dc apply:
- 1) Pursuant to 40 CFR Part 60.43c, EU-05 shall not discharge into the atmosphere any gases that exceeds 20% opacity.
 - 2) Pursuant to 40 CFR 60 Subpart Dc, the fuel oil sulfur content limit applies at all times, including periods of startup, shutdown, and malfunction for EU-05.

The other boilers are not subject to NSPS due to date of construction and/or size of the boiler.

- (b) The medical waste incinerator is subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60, Subpart Ce). Compliance with the requirements of 326 IAC 11-6 will also satisfy the requirements of 40 CFR 60, Subpart Ce. The compliance date by which this facility must comply with these emission limits is March 31, 2002.

- (c) The medical waste incinerator is not subject to the New Source Performance Standard, 326 IAC 12, (40 CFR 60, Subpart Ea), due to the date of construction.
- (d) There are no National Emission Standards for Hazardous Air Pollutants (NESHAP) applicable to this source.

State Rule Applicability - Entire Source

326 IAC 2-2 (Prevention of Significant Deterioration (PSD))

There are no PSD requirements applicable to this source because it does not meet the definition of a major PSD source as defined in 326 IAC 2-2-1; the potential emissions for this source are limited by federally enforceable SIP limits. There have been no major modifications to the existing facility.

326 IAC 2-3 (Emission Offset)

Marion County is in attainment for all criteria air pollutants and, therefore, the requirements of 326 IAC 2-3 (Emission Offset) do not apply.

326 IAC 2-6 (Emission Reporting)

This source is subject to 326 IAC 2-6 (Emission Reporting), because it has the potential to emit more than ten (10) tons per year of Nitrogen oxide (NO_x). Pursuant to this rule, the owner/operator of the source must annually submit an emission statement for the source. The annual statement must be received by April 15 of each year and contain the minimum requirement as specified in 326 IAC 2-6-4. The submittal should cover the period defined in 326 IAC 2-6-2(8)(Emission Statement Operating Year).

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of thirty percent (30%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

[326 IAC 7-1.1-2(a)(3)] (SO₂ Emissions Limitations)

The SO₂ emissions from the five natural gas and Number 2 fuel oil fired boilers identified as EU-01, EU-02, EU-03, EU-04, EU-05 and emergency generators identified as Emergency Generator #5 and Emergency Generator #6 shall not exceed five tenths (0.5) pounds per million Btu heat input; or the sulfur content of the fuel oil shall not exceed five-tenths percent (0.5%) by weight.

Particulate Matter [326 IAC 6-1-12]

Since this source is located in Marion County and is specifically listed under 326 IAC 6-1-12 the following rule applies:

Pursuant to 326 IAC 6-1-12 (Particulate Rules) the PM emissions from each of the three (3) Zurn natural gas and Number 2 fuel oil fired boilers identified as EU-01, EU-02, EU-03 shall not exceed .011 pounds per million Btu (lbs/mmBtu) heat input and 0.7 tons per year.

326 IAC 6-2-4 (Particulate Emission Limitations for Sources of Indirect Heating)

Since the boilers identified as EU-04, EU-05 are located in Marion County and were installed after 1983 the particulate emissions are limited pursuant to 326 IAC 6-2-4 (Particulate Matter Emission Limitations for Sources of Indirect Heating). Pursuant to 326 IAC 6-2-4 the Particulate Matter (PM) emissions from the 11.25 million Btu per hour boiler, identified as EU-04, shall be limited to 0.37 pounds per million Btu of heat input and the Particulate Matter (PM) emissions from the 5.3 million Btu per hour boiler, identified as EU-05, shall be limited to 0.79 pounds per million Btu of heat input.

Burning Regulations for Incinerators (PM) [326 IAC 4-2]

Pursuant to 326 IAC 4-2-2, Burning Regulations for Incinerators, the medical and general waste incinerator identified as WDI-01, shall:

- (a) Consist of primary and secondary chambers or the equivalent.
- (b) Be equipped with a primary burner unless burning wood products.
- (c) Comply with 326 IAC 5-1 (Opacity limitations).
- (d) Be maintained properly as specified by the manufacturer and approved by IDEM.
- (e) Be operated according to the manufacturer's recommendation and only burn waste approved by IDEM.
- (f) Comply with other state and/or local rules or ordinances regarding installation and operation of incinerators.
- (g) Be operated so that emissions of hazardous materials including, but not limited to, viable pathogenic bacteria, dangerous chemicals or gases, or noxious odors are prevented.
- (h) Not create a nuisance or a fire hazard.
- (i) Not emit particulate matter in excess of three-tenths (0.3) pounds of particulate matter per one thousand (1,000) pounds of dry exhaust gas at standard conditions corrected to fifty percent (50%) excess air.

The operation of the incinerator shall be terminated immediately upon noncompliance with any of the above mentioned requirements.

Carbon Monoxide [326 IAC 9-1-2]

Pursuant to 326 IAC 9-1-2(3), Carbon Monoxide emission limits for refuse incineration and burning equipment, the Simond Manufacturing Corporation Incinerator, identified as WDI-01, shall not discharge carbon monoxide unless the waste gas stream is burned in a direct-flame afterburner or is controlled by other means approved by the commissioner.

326 IAC 11-6 (Hospital/Medical/Infectious Waste Incinerators)

- (a) The medical waste incinerator is subject to 326 IAC 11-6 and 40 CFR 60, Subpart Ce with a compliance date of one year after the effective date of the rule, unless the facility is undergoing retrofit to come into compliance where compliance is required no later than March 31, 2002.
- (b) Pursuant to 326 IAC 11-6-9, the source shall install the necessary air pollution control equipment and be in compliance with all provisions of this rule no later than March 31, 2002, provided the following measurable and enforceable incremental steps of progress are taken:
 - (1) Submit a final control plan no later than June 30, 1999 (Control plan was submitted and is on file);
 - (2) Award contracts for emissions control systems or for process modifications, or issuance of orders for the purchase of component parts to accomplish emission control or process modifications no later than March 31, 2000;
 - (3) Initiate on-site construction or installation of emission control equipment or process change no later than March 31, 2001;

- (4) Complete on-site construction or installation of emission control equipment or process change no later than September 30, 2001;
 - (5) Be in final compliance no later than March 31, 2002.
 - (6) The source shall be in compliance with the operator training and qualification requirements within one (1) year after the effective date of this rule.
- (c) Pursuant to 326 IAC 11-6-4 and 40 CFR 60, Subpart Ce, the medical waste incinerator shall comply with the following conditions:
 - (1) The medical waste incinerator shall comply with the following emission limits:
 - (A) Particulate Matter emissions shall not exceed 0.015 grains per dry standard cubic foot;
 - (B) Carbon Monoxide emissions shall not exceed 40 parts per million by volume;
 - (C) Dioxins/furans shall not exceed 55 grains per billion dry standard cubic feet total dioxins/furans or 1.0 grains per billion dry standard cubic feet toxic equivalent quantity (TEQ);
 - (D) Hydrogen chloride emissions shall not exceed 100 parts per million by volume or a 93% reduction;
 - (E) Sulfur dioxide emissions shall not exceed 55 parts per million by volume;
 - (F) Nitrogen oxide emissions shall not exceed 250 parts per million by volume;
 - (G) Lead emissions shall not exceed 0.52 grains per thousand dry standard cubic feet or a 70% reduction;
 - (H) Cadmium emissions shall not exceed 0.07 grains per thousand dry standard cubic feet or a 65% reduction;
 - (I) Mercury emissions shall not exceed 0.24 grains per thousand dry standard cubic feet or a 85% reduction.
 - (2) The medical waste incinerator shall not operate at any time unless a fully trained and qualified Hospital/Medical/Infectious Waste Incinerator (HMIWI) operator is accessible either at the facility or available within one (1) hour. The following documentation shall be maintained at the facility and an initial review of the information with each HMIWI operator shall be conducted within one year after the effective date of this rule and annually, thereafter:
 - (A) Summary of the applicable standards;
 - (B) Description of basic combustion theory applicable to an HMIWI;
 - (C) Procedures for receiving, handling, and charging waste;
 - (D) HMIWI startup, shutdown and malfunction procedures;
 - (E) Procedures for maintaining proper combustion air supply levels;

- (F) Procedures for operating the HMIWI and associated air pollution control systems;
 - (G) Procedures for responding to periodic malfunction or conditions that may lead to malfunction;
 - (H) Procedures for monitoring HMIWI emissions;
 - (I) Reporting and record keeping;
 - (J) Procedures for handling ash.
- (3) The source shall prepare and submit a waste management plan as specified in 40 CFR 60.55c and 40 CFR 60.58c(c) no later than sixty (60) days following the initial performance test. The plan must identify both the feasibility and the approach to separate certain components of solid waste from the health care waste stream in order to reduce the amount of toxic emissions from incinerated waste.

326 IAC 8-1-6 Volatile Organic Compounds (VOC)

The source is not regulated by other provisions of article 8 and has total potential to emit of less than 25 tons VOC per year and was constructed prior to 1980. Therefore BACT does not apply.

Compliance Requirements

Permits issued under 326 IAC 2-7 are required to ensure that sources can demonstrate compliance with applicable state and federal rules on a more or less continuous basis. All state and federal rules contain compliance provisions, however, these provisions do not always fulfill the requirement for a more or less continuous demonstration. When this occurs IDEM, OAM, in conjunction with the source, must develop specific conditions to satisfy 326 IAC 2-7-5. As a result, compliance requirements are divided into two sections: Compliance Determination Requirements and Compliance Monitoring Requirements.

Compliance Determination Requirements in Section D of the permit are those conditions that are found more or less directly within state and federal rules and the violation of which serves as grounds for enforcement action. If these conditions are not sufficient to demonstrate continuous compliance, they will be supplemented with Compliance Monitoring Requirements, also Section D of the permit. Unlike Compliance Determination Requirements, failure to meet Compliance Monitoring conditions would serve as a trigger for corrective actions and not grounds for enforcement action. However, a violation in relation to a compliance monitoring condition will arise through a source's failure to take the appropriate corrective actions within a specific time period.

The compliance monitoring requirements applicable to this source are as follows:

1. The natural gas and No. 2 fuel oil Boilers have applicable compliance monitoring conditions, when combusting No. 2 fuel oil, as specified below:
 - (a) Daily visible emission notations of the boilers stack exhaust shall be performed during normal daylight operations when exhausting to the atmosphere. A trained employee shall record whether emissions are normal or abnormal.
 - (b) For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty percent (80%) of the time the process is in operation, not counting startup or shut down time.
 - (c) In the case of batch or discontinuous operations, readings shall be taken during

- that part of the operation that would normally be expected to cause the greatest emissions.
- (d) A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process.
 - (e) The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.
2. The medical waste incinerator has applicable compliance monitoring conditions as specified below:
- (a) Compliance monitoring for the medical waste incinerator shall be performed according to 40 CFR 60.57c, based on the type of control equipment installed. The Permittee shall obtain monitoring data at all times during HMIWI operation except during periods of monitoring equipment malfunction, calibration, or repair. At a minimum, valid monitoring data shall be obtained for 75 percent of the operating hours per day and for 90 percent of the operating days per calendar quarter that the affected facility is combusting hospital, medical and/or infectious waste.
 - (c) Daily visible emission notations of the medical waste incinerator stack exhaust shall be performed during normal daylight operations until the final compliance date of March 31, 2002. A trained employee shall record whether emissions are normal or abnormal. For processes operated continuously, "normal" means those conditions prevailing, or expected to prevail, eighty (80) percent of the time the process is in operation, not counting startup or shut down time. In the case of batch or discontinuous operations, reading shall be taken during that part of the operation that would normally be expected to cause the greatest emissions. A trained employee is an employee who has worked at the plant at least one (1) month and has been trained in the appearance and characteristics of normal visible emissions for that specific process. The Compliance Response Plan for this unit shall contain troubleshooting contingency and response steps for when an abnormal emission is observed.

Air Toxic Emissions

Indiana presently requests applicants to provide information on emissions of the 188 hazardous air pollutants (HAPs) set out in the Clean Air Act Amendments of 1990. These pollutants are either carcinogenic or otherwise considered toxic and are commonly used by industries. They are listed as air toxics on the Office of Air Management (OAM) Part 70 Application Form GSD-08.

- (a) This source will emit levels of air toxics greater than those that constitute major source applicability according to Section 112 of the 1990 Clean Air Act Amendments.
- (b) See attached calculations (Located in Appendix A, pages 1 through 6) for detailed air toxic calculations.

Conclusion

The operation of this General Medical and Surgical Hospital shall be subject to the conditions of the attached proposed **Part 70 Permit No. T097-7469-00129**.

Company Name: Saint Vincent Hospitals and Health Services
Address, City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240
Title V: T097-7469-00129
Reviewer: Kevin Leone

**LARGE DESIGNATION
POTENTIAL EMISSIONS**

Maximum Waste Input lb/hr 1500	Potential Throughput tons/year 6570.0		
Heat Input Capacity MMBtu/hr 9.7	Potential Throughput MMCF/year 85.0	Construction Date 1989	SCC # 5-01-005-05

Incinerator Waste Burned	Pollutant										
	PM	PM10	SO ₂	NO _x	VOC	CO	Total CDD*	Total CDF**	HCL	Pb	Cd
Emission Factor in lb/ton	4.67	4.67	2.17	3.56	2.99	2.95	2.13 E-05	7.15 E-05	3.35 E+01	7.28 E-02	5.48 E-03
Limited Potential Emissions in tons/yr	15.34	15.34	7.13	11.69	9.82	9.69	0.00006997	0.0002349	110.0475000	0.2391480	0.0180018

Natural Gas	Pollutant					
	PM	PM10	SO ₂	NO _x	VOC	CO
Emission Factor in lb/MMCF	7.6	7.6	0.6	100.0	5.5	84.0
Potential Emissions tons/yr	0.3	0.3	0.0	4.2	0.2	3.6

Methodology:
MMBtu = 1,000,000 Btu
MMCF = 1,000,000 Cubic Feet of Gas
Emission Factors are for controlled air incinerator with no pollution control device
Natural Gas Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu
Emission Factors for waste burned are from AP 42, Chapter 2.3, Tables 2.3-1 through 2.3-15, SCC #5-01-005-05
Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3
Natural Gas Emissions (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton
Waste Emissions: Throughput (lb/hr) * 8760 hr/yr * ton/2000 lb = throughput (ton/yr)

* Chlorinated Dibenzo-P-dioxin
** Chlorinated Dibenzofuran

POTENTIAL EMISSIONS Medical Waste Incinerator

Pursuant to 326 IAC 4-2, incinerators with a maximum refuse burning capacity more than 200 pounds per hour shall not emit PM in excess of 0.3 pounds per 1,000 pounds of dry exhaust gas at standard conditions corrected to 50% excess air.

PM potential emissions from natural gas calculated above equals 0.03 pounds per hour and potential emissions from waste burned (total PM) using an emission factor of 4.67 lb/ton (AP-42 table 2.3-2) is 15.34 ton/yr, the result of 6570.0 tons/yr multiplied by the process emission factor of 4.67 lb/ton divided by 2000. Therefore, total limited potential emissions equal 0.03 lb/hr + 3.43 lb/hr, or 3.46 lb/hr.

PM potential emissions= 3.46 lb/hr
Maximum estimated stack gas flow rate= 19,690 acfm
Gas temperature= 1,600 deg F
% excess air= 0 %

V, std= 19690 acfm * ($\frac{529}{2059}$) deg R V, std= Volumetric flow rate at standard conditions
() deg R Cs= concentration
V, std= 5058.77 dscfm stp= standard temperature pressure
Cs = $\frac{3.46 \text{ lb/hr}}{5058.77125 \text{ dscfm}} * \frac{7000 \text{ gr/lb}}{1 \text{ hr/60 min}} = 0.157 \text{ gr/dscf}$

Corrected to 50% excess air:

Cs, corrected= 0.157 gr/dscf * $\frac{(100 + 0)\%}{150\%} = 0.105 \text{ gr/dscf}$

Ideal Gas Law: V_{hat}, stp= $\frac{R * T}{P * Mw}$ where: R(gas constant)= 21.9 in Hg * ft³
lb mol * deg R
T (std. temp.)= 529 deg R
P (std. pressure)= 29.45 inches of Hg
Mw (avg. molecular wgt. air)= 29 lb/lbmol

Therefore:
V_{hat}, stp= 13.5648967 cf/lb air

Cs, corrected stp= 0.157 gr/dscf * 13.56 cf/lb air = 2.13 gr/lb air

So: 2.131 gr/lb air * 1lb PM/7000g * 1000 = $\frac{0.304 \text{ lb PM}}{1000 \text{ lb dry gas}}$

ACTUAL EMISSIONS

PM actual emissions= 3.46 lb/hr
Maximum estimated stack gas flow rate= 19,690 acfm
Gas temperature= 1,600 deg F
% excess air= 0 %

V, std= 19690 acfm * ($\frac{529}{2059}$) deg R V, std= Volumetric flow rate at standard conditions
() deg R Cs= concentration
V, std= 5058.77 dscfm stp= standard temperature pressure
Cs = $\frac{3.46 \text{ lb/hr}}{5058.77125 \text{ dscfm}} * \frac{7000 \text{ gr/lb}}{1 \text{ hr/60 min}} = 0.157 \text{ gr/dscf}$

Corrected to 50% excess air:

Cs, corrected= 0.157 gr/dscf * $\frac{(100 + 0)\%}{150\%} = 0.105 \text{ gr/dscf}$

Ideal Gas Law: V_{hat}, stp= $\frac{R * T}{P * Mw}$ where: R(gas constant)= 21.9 in Hg * ft³
lb mol * deg R
T (std. temp.)= 529 deg R
P (std. pressure)= 29.45 inches of Hg
Mw (avg. molecular wgt. air)= 29 lb/lbmol

Therefore:
V_{hat}, stp= 13.5648967 cf/lb air

Cs, corrected stp= 0.157 gr/dscf * 13.56 cf/lb air = 2.13 gr/lb air

So: 2.131 gr/lb air * 1lb PM/7000g * 1000 = $\frac{0.304 \text{ lb PM}}{1000 \text{ lb dry gas}}$

Since the Potential PM emissions are 0.3lbs PM/ 1000 lbs dry gas and the actual PM emissions are 0.3 lbs PM/ 1000 lbs of dry gas, the Incinerator is in compliance with the 0.3 lbs PM/ 1000 lbs dry gas limit in 326 IAC 4-2.

Appendix A: Emissions Calculations

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Natural Gas Combustion Only**MM BTU/HR <100****Small Industrial Boiler****Company Name: Saint Vincent Hospitals and Health Services****Address City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240****TV: T097-7469-00129****Reviewer: Kevin Leone****Date: 07/30/99**Heat Input Capacity
MMBtu/hrPotential Throughput
MMCF/yr

29.2

255.8

Emission Factor in lb/MMCF	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0	5.5	84.0
Potential Emission in tons/yr	0.2	1.0	0.1	**see below	0.7	10.7

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

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Natural Gas Combustion Only**MM BTU/HR <100****Small Industrial Boiler****Company Name: Saint Vincent Hospitals and Health Services****Address City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240****TV: T097-7469-00129****Reviewer: Kevin Leone****Date: 07/30/99**

Heat Input Capacity

MMBtu/hr

29.2

Potential Throughput

MMCF/yr

255.8

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.2	1.0	0.1	12.8	0.7	10.7

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

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Natural Gas Combustion Only**MM BTU/HR <100****Small Industrial Boiler****Company Name: Saint Vincent Hospitals and Health Services****Address City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240****TV: T097-7469-00129****Reviewer: Kevin Leone****Date: 07/30/99**

Heat Input Capacity

MMBtu/hr

Potential Throughput

MMCF/yr

35.5

311.0

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	0.3	1.2	0.1	15.5	0.9	13.1

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

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Natural Gas Combustion Only**MM BTU/HR <100****Small Industrial Boiler****Company Name: Saint Vincent Hospitals and Health Services****Address City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240****TV: T097-7469-00129****Reviewer: Kevin Leone****Date: 07/30/99**

Heat Input Capacity

MMBtu/hr

11.3

Potential Throughput

MMCF/yr

98.6

	Pollutant					
	PM*	PM10*	SO2	NOx	VOC	CO
Emission Factor in lb/MMCF	1.9	7.6	0.6	100.0 **see below	5.5	84.0
Potential Emission in tons/yr	0.1	0.4	0.0	4.9	0.3	4.1

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

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Natural Gas Combustion Only**MM BTU/HR <100****Small Industrial Boiler****Company Name: Saint Vincent Hospitals and Health Services****Address City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240****TV: T097-7469-00129****Reviewer: Kevin Leone****Date: 07/30/99**

Heat Input Capacity

MMBtu/hr

35.5

Potential Throughput

MMCF/yr

311.0

Pollutant						
Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	SO2 0.6	NOx 100.0 **see below	VOC 5.5	CO 84.0
Potential Emission in tons/yr	0.3	1.2	0.1	15.5	0.9	13.1

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations

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Natural Gas Combustion Only**MM BTU/HR <100****Small Industrial Boiler****Company Name: Saint Vincent Hospitals and Health Services****Address City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240****TV: T097-7469-00129****Reviewer: Kevin Leone****Date: 07/30/99**Heat Input Capacity
MMBtu/hrPotential Throughput
MMCF/yr

5.3

46.4

Pollutant						
Emission Factor in lb/MMCF	PM* 1.9	PM10* 7.6	SO2 0.6	NOx 100.0 **see below	VOC 5.5	CO 84.0
Potential Emission in tons/yr	0.0	0.2	0.0	2.3	0.1	1.9

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emissions calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#2 Fuel Oil

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Company Name: Saint Vincent Hospitals and Health Services
Address, City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240
TV: T097-7469-00129
Reviewer: Kevin Leone
Date: 07/30/99

Heat Input Capacity MMBtu/hr	Potential Throughput kgals/year	S = Weight % Sulfur <div style="border: 1px solid black; padding: 2px; display: inline-block;">0.5</div>
<div style="border: 1px solid black; padding: 2px; display: inline-block;">29.2</div>	1827.08571	

Emission Factor in lb/kgal	Pollutant				
	PM*	SO ₂	NO _x	VOC	CO
	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	1.8	64.9	18.3	0.3	4.6

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM B

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#2 Fuel Oil

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Company Name: Saint Vincent Hospitals and Health Services
Address, City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240
TV: T097-7469-00129
Reviewer: Kevin Leone
Date: 07/30/99

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur
0.5

29.2

1827.08571

	Pollutant				
	PM*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	1.8	64.9	18.3	0.3	4.6

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#2 Fuel Oil

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Company Name: Saint Vincent Hospitals and Health Services
Address, City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240
TV: T097-7469-00129
Reviewer: Kevin Leone
Date: 07/30/99

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur
0.5

35.5

2221.28571

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2	NOx	VOC	CO
	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	2.2	78.9	22.2	0.4	5.6

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#2 Fuel Oil

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Company Name: Saint Vincent Hospitals and Health Services
Address, City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240
TV: T097-7469-00129
Reviewer: Kevin Leone
Date: 07/30/99

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur

0.5

11.25

703.928571

Emission Factor in lb/kgal	Pollutant				
	PM*	SO ₂	NO _x	VOC	CO
	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	0.7	25.0	7.0	0.1	1.8

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM₁₀ when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#2 Fuel Oil

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Company Name: Saint Vincent Hospitals and Health Services
Address, City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240
TV: T097-7469-00129
Reviewer: Kevin Leone
Date: 07/30/99

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur
0.5

11.7

732.085714

	Pollutant				
	PM*	SO2	NOx	VOC	CO
Emission Factor in lb/kgal	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	0.7	26.0	7.3	0.1	1.8

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emission calculations.

Appendix A: Emissions Calculations
Commercial/Institutional/Residential Combustors (< 100 mmBtu/hr)
#2 Fuel Oil

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Company Name: Saint Vincent Hospitals and Health Services
Address, City IN Zip: 2001 W. 86th Street, Indianapolis, Indiana 46240
TV: T097-7469-00129
Reviewer: Kevin Leone
Date: 07/30/99

Heat Input Capacity
MMBtu/hr

Potential Throughput
kgals/year

S = Weight % Sulfur
0.5

5.3

331.628571

Emission Factor in lb/kgal	Pollutant				
	PM*	SO2	NOx	VOC	CO
	2.0	71 (142.0S)	20.0	0.34	5.0
Potential Emission in tons/yr	0.3	11.8	3.3	0.1	0.8

Methodology

1 gallon of No. 2 Fuel Oil has a heating value of 140,000 Btu

Potential Throughput (kgals/year) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1kgal per 1000 gallon x 1 gal per 0.140 MM Btu

Emission Factors are from AP 42, Tables 1.3-1, 1.3-2, and 1.3-3 (SCC 1-03-005-01/02/03) Supplement E 9/98 (see erata file)

*PM emission factor is filterable PM only. Condensable PM emission factor is 1.3 lb/kgal.

Emission (tons/yr) = Throughput (kgals/ yr) x Emission Factor (lb/kgal)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emission calculations.

